



# Product Catalog

2002/2003

**Click to go to:**

[\*\*- Table of Contents\*\*](#)

[\*\*- New Products List\*\*](#)

[\*\*- Index\*\*](#)

**Click: part numbers > data sheets**

Diodes Incorporated  
3050 E. Hillcrest Drive  
Westlake Village, CA 91362-3154  
2002/2003

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**Specifications are subject to change without notice.**

The data indicated herein describe types of components and shall not be considered as assured characteristics.

The products listed in this catalog are not recommended for use in life support systems where a failure or malfunction of the component may directly threaten life or cause injury.

The user of products in such applications shall assume all risks of such use and will agree to hold Diodes Incorporated and all the companies whose products are represented in this catalog, harmless against all damages.

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# *Table of Contents*

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<i>New Product List.....</i>	<b>9</b>
<i>About This Product Catalog .....</i>	<b>1-1</b>
Technical Support.....	1-2
Product Ordering / Sampling.....	1-2
<i>Schottky Diodes.....</i>	<b>2-1</b>
150mW Schottky Diodes / SOT-523 .....	2-1
200mW Schottky Diodes / SOT-323 .....	2-1
200mW Schottky Diodes / SOD-323.....	2-2
200mW Schottky Diodes / SOT-363 .....	2-3
200mW Schottky Diodes / SOT-23 .....	2-3
200mW Schottky Diodes / SOD-123.....	2-3
400mW Schottky Diodes / SOD-123.....	2-4
400mW Schottky Diodes / SC-59 .....	2-4
400mW Schottky Diodes / SOT-26 .....	2-4
400mW Schottky Diodes / mini-MELF .....	2-4
400mW Schottky Diodes / DO-35 .....	2-5
<i>Surface Mount Schottky Rectifiers .....</i>	<b>2-6</b>
0.4A Schottky Rectifiers / SOT-23 .....	2-6
0.5A Schottky Rectifiers / SOD-323.....	2-6
0.5A Schottky Rectifiers / SOT-23 .....	2-6
0.5A Schottky Rectifiers / SOD-123.....	2-6
0.75A Schottky Rectifiers / SOT-23 .....	2-6
1.0A Schottky Rectifiers / SOT-23 .....	2-6
1.0A Schottky Rectifiers / SOD-123.....	2-6
1.0A Schottky Rectifiers / SMA.....	2-7
1.0A Schottky Rectifiers / SMB .....	2-7
1.0A Schottky Rectifiers / MELF .....	2-7
2.0A Schottky Rectifiers / SMA.....	2-8
2.0A Schottky Rectifiers / SMB .....	2-8
3.0A Schottky Rectifiers / POWERMITE® 3 .....	2-8
3.0A Schottky Rectifiers / SMA .....	2-8
3.0A Schottky Rectifiers / SMB .....	2-9
3.0A Schottky Rectifiers / SMC .....	2-9
5.0A Schottky Rectifiers / POWERMITE® 3 .....	2-9
5.0A Schottky Rectifiers / SMC .....	2-9
7.0A Schottky Rectifiers / POWERMITE® 3 .....	2-9
8.0A Schottky Rectifiers / POWERMITE® 3 .....	2-9
8.0A Schottky Rectifiers / DPAK .....	2-10
10A Schottky Rectifiers / POWERMITE® 3 .....	2-10
10A Schottky Rectifiers / DPAK .....	2-10
10A Schottky Rectifiers / D <sup>2</sup> PAK .....	2-10
15A Schottky Rectifiers (Dual) / D <sup>2</sup> PAK.....	2-10
16A Schottky Rectifiers (Dual) / D <sup>2</sup> PAK.....	2-11
20A Schottky Rectifiers (Dual) / D <sup>2</sup> PAK.....	2-11
30A Schottky Rectifiers (Dual) / D <sup>2</sup> PAK.....	2-11

---

<b><i>Switching Diodes.....</i></b>	<b>3-1</b>
150mW Switching Diodes / SOT-523 .....	3-1
150mW Low Leakage Signal Diodes / SOT-523 .....	3-1
200mW Switching Diodes / SOT-323 .....	3-1
200mW Switching Diode Arrays / SOT-353 / SOT-363 .....	3-2
200mW Switching Diodes / SOD-323 .....	3-2
250mW Switching Diodes / SOD-123 .....	3-2
250mW Low Leakage Signal Diode / SOD-123 .....	3-2
250mW Low Leakage Signal Diodes / SOT-23 .....	3-3
300mW Switching Diodes / SOT-26 .....	3-3
350mW Switching Diodes / SOT-23 .....	3-3
400mW Switching Diodes / SOD-123 .....	3-3
500mW Switching Diodes / mini-MELF .....	3-4
500mW Switching Diodes / DO-35 .....	3-4
<b><i>NPN, PNP Transistors.....</i></b>	<b>4-1</b>
NPN Transistors / SOT-523 .....	4-1
PNP Transistors / SOT-523.....	4-1
NPN Transistors / SOT-323 .....	4-1
PNP Transistors / SOT-323.....	4-2
Darlington NPN Transistors / SOT-323 .....	4-2
Darlington PNP Transistors / SOT-323 .....	4-2
Dual NPN Transistors / SOT-363 .....	4-2
Dual PNP Transistors / SOT-363 .....	4-3
Complementary NPN/PNP Transistors / SOT-363.....	4-3
NPN Transistors / SOT-23 .....	4-4
PNP Transistors / SOT-23.....	4-4
Darlington NPN Transistors / SOT-23 .....	4-5
Darlington PNP Transistors / SOT-23 .....	4-5
Dual NPN Transistor / SOT-26 .....	4-5
Dual PNP Transistor / SOT-26 .....	4-5
<b><i>Matched Transistor Arrays .....</i></b>	<b>4-6</b>
Dual Matched NPN Transistor Array / SOT-363.....	4-6
Dual Matched PNP Transistor Array / SOT-363.....	4-6
Dual Matched NPN Transistor Array / SOT-143.....	4-6
Dual Matched PNP Transistor Array / SOT-143.....	4-6
<b><i>MOSFETS.....</i></b>	<b>5-1</b>
N-Channel MOSFET / SOT-523.....	5-1
N-Channel MOSFET / SOT-323.....	5-1
P-Channel MOSFET / SOT-323.....	5-1
N-Channel MOSFET / SOT-23.....	5-1
P-Channel MOSFET / SOT-23 .....	5-1
N-Channel MOSFET / SC-59 .....	5-1
Dual N-Channel MOSFET / SOT-363 .....	5-1
Dual P-Channel MOSFET / SOT-363 .....	5-1
<b><i>NPN, PNP Prebiased Transistors.....</i></b>	<b>6-1</b>
<b><i>Complex Arrays.....</i></b>	<b>7-1</b>
PNP Transistor and N-Channel MOSFET / SOT-363 .....	7-1
NPN Transistor and P-Channel MOSFET / SOT-363 .....	7-1
Dual Matched NPN Transistor Array / SOT-363.....	7-2
Dual Matched PNP Transistor Array / SOT-363.....	7-2
Dual Matched NPN Transistor Array / SOT-143.....	7-2
Dual Matched PNP Transistor Array / SOT-143.....	7-2
Quad Schottky Bus Terminator / Dataline Protection Array / SOT-363.....	7-2

---

---

300W Peak Power Low Capacitance Transient Voltage Suppressors / SOT-23 .....	7-3
300W Peak Power Rail to Rail Dataline Transient Voltage Suppressors / SOT-23 .....	7-3
Complementary (NPN/PNP) Pre-Biased Transistor Arrays for Power Management .....	7-3
<b><i>Customer Specified Custom Arrays</i></b> .....	<b>7-4</b>
<b>Zener Diodes</b> .....	<b>8-1</b>
150mW Zener Diodes / SOT-523.....	8-1
200mW Zener Diodes (Dual, Isolated) / SOT-363 .....	8-3
200mW Quad Zener Diode Array / SOT-363 .....	8-5
200mW Triple Zener Diode Array / SOT-363 .....	8-5
200mW Triple Bi-Directional Zener Diode Array / SOT-363.....	8-5
200mW Zener Diodes / SOD-323 .....	8-6
200mW High Precision Zener Diodes / SOD-323 .....	8-8
200mW Zener Diodes (Dual, Common Anode) / SOT-323.....	8-9
200mW Zener Diodes / SOT-323.....	8-10
300mW Zener Diodes (Dual, Common Anode) / SOT-23.....	8-12
300mW Zener Diodes (Dual, Common Cathode) / SOT-23.....	8-13
350mW Zener Diodes (Single) / SOT-23 .....	8-14
350mW Zener Diodes / SOT-23.....	8-15
500mW Zener Diodes / SOD-123 .....	8-16
500mW Zener Diodes / SOD-123 .....	8-17
500mW Zener Diodes / miniMELF .....	8-18
500mW Zener Diodes / DO-35.....	8-20
1.0W Zener Diodes / SMA .....	8-22
1.0W Zener Diodes / DO-41.....	8-23
<b>Transient Voltage Suppressors and Thyristor Surge Protectors</b> .....	<b>9-1</b>
24W Peak Power Dual Transient Voltage Suppressors (Common Anode) / SOT-23.....	9-1
40W Peak Power Dual Transient Voltage Suppressors (Common Anode) / SOT-23.....	9-1
40W Peak Power Dual Transient Voltage Suppressors (Common Cathode) / SOT-23.....	9-1
300W Peak Power Low Capacitance Transient Voltage Suppressor / SOT-23.....	9-1
300W Peak Power Rail to Rail Dataline Transient Voltage Suppressor / SOT-23.....	9-2
400W Transient Voltage Suppressors / SMA.....	9-3
500W Transient Voltage Suppressors / DO-15 .....	9-4
600W Transient Voltage Suppressors / SMB.....	9-5
600W Transient Voltage Suppressors / DO-15.....	9-7
1500W Transient Voltage Suppressors / SMC .....	9-8
1500W Transient Voltage Suppressors / DO-201AD .....	9-9
<b>Thyristor Surge Protection Devices</b> .....	<b>9-11</b>
30A Bidirectional Thyristor Surge Protection Device / SMB.....	9-11
50A Bidirectional Thyristor Surge Protection Device / SMB.....	9-12
100A Bidirectional Thyristor Surge Protection Device / SMB.....	9-13
<b>Through-Hole Schottky Rectifiers</b> .....	<b>10-1</b>
1.0A Schottky Rectifiers / DO-41 .....	10-1
3.0A Schottky Rectifiers / DO-201AD .....	10-1
5.0A Schottky Rectifiers / DO-201AD .....	10-2
5.0A Schottky Rectifiers / TO-220AC .....	10-2
7.5A Schottky Rectifiers / TO-220AC .....	10-2
8.0A Schottky Rectifiers / DO-201AD .....	10-2
8.0A Schottky Rectifiers / TO-220AC .....	10-2
9.0A Schottky Rectifiers / DO-201AD .....	10-3
10A Schottky Rectifiers / TO-220AC .....	10-3
10A Schottky Rectifiers (Dual) / TO-220AB .....	10-3
15A Schottky Rectifiers (Dual) / TO-220AB .....	10-3
16A Schottky Rectifiers / TO-220AC .....	10-4
16A Schottky Rectifiers / TO-220AB .....	10-4

---

16A Schottky Rectifiers (Dual) / TO-3P .....	10-4
20A Schottky Rectifiers (Dual) / TO-220AB .....	10-4
20A Schottky Rectifiers (Dual) / TO-3P .....	10-5
30A Schottky Rectifiers (Dual) / TO-220AB .....	10-5
30A Schottky Rectifiers (Dual) / TO-3P.....	10-6
40A Schottky Rectifiers (Dual) / TO-3P .....	10-6
60A Schottky Rectifiers (Dual) / TO-3P.....	10-6
<b><i>Super-/Ultra-Fast Recovery Rectifiers</i></b> .....	<b>11-1</b>
1.0A Super-/Ultra-Fast Recovery Glass Passivated Rectifiers / SMA.....	11-1
1.0A Super-/Ultra-Fast Recovery Glass Passivated Rectifiers / SMB.....	11-1
1.0A Super-/Ultra-Fast Recovery Rectifiers / DO-41.....	11-1
1.0A Super-/Ultra-Fast Recovery Glass Passivated Rectifiers / DO-41 .....	11-1
1.0A Super-/Ultra-Fast Recovery Glass Passivated Rectifiers / DO-41.....	11-2
1.5A Ultra-Fast Recovery Rectifiers / DO-15.....	11-2
1.5A Ultra-Fast Recovery Rectifiers / DO-41.....	11-2
2.0A Super-Fast Recovery Glass Passivated Rectifiers / SMA.....	11-2
2.0A Super-Fast Recovery Glass Passivated Rectifiers / SMB.....	11-2
2.0A Super-Fast Recovery Rectifiers / DO-15.....	11-3
2.0A Super-/Ultra-Fast Recovery Glass Passivated Rectifiers / DO-15.....	11-3
3.0A Super-Fast Recovery Glass Passivated Rectifiers / SMB.....	11-3
3.0A Super-Fast Recovery Glass Passivated Rectifiers / SMC .....	11-3
3.0A Super-/Ultra-Fast Recovery Glass Passivated Rectifiers / DO-201AD .....	11-4
3.0A Ultra-Fast Recovery Rectifiers / DO-201AD.....	11-4
4.0A Super-/Ultra-Fast Recovery Rectifiers / POWERMITE® 3 .....	11-4
8.0A Super-/Ultra-Fast Recovery Rectifiers / POWERMITE® 3 .....	11-4
16A Super-Fast Recovery Glass Passivated Rectifiers (Dual) / D <sup>2</sup> PAK.....	11-4
<b><i>Fast Recovery Rectifiers</i></b> .....	<b>12-1</b>
1.0A Fast Recovery Glass Passivated Rectifiers / MELF.....	12-1
1.0A Fast Recovery Glass Passivated Rectifiers / SMA .....	12-1
1.0A Fast Recovery Glass Passivated Rectifiers / SMB .....	12-1
1.0A Fast Recovery Rectifiers / DO-41 .....	12-2
1.0A Fast Recovery Glass Passivated Rectifiers / DO-41.....	12-2
1.0A Fast Recovery Rectifiers / A-405 .....	12-2
1.0A Fast Recovery Glass Passivated Rectifiers / A-405.....	12-2
1.5A Fast Recovery Glass Passivated Rectifiers / SMA .....	12-3
1.5A Fast Recovery Glass Passivated Rectifiers / SMB .....	12-3
1.5A Fast Recovery Rectifiers / DO-15 .....	12-3
1.5A Fast Recovery Glass Passivated Rectifiers / DO-15.....	12-3
1.5A Fast Recovery Rectifiers / DO-41 .....	12-4
1.5A Fast Recovery Glass Passivated Rectifiers / DO-41.....	12-4
2.0A Fast Recovery Rectifiers / DO-15 .....	12-4
2.0A Fast Recovery Glass Passivated Rectifiers / DO-15.....	12-4
3.0A Fast Recovery Glass Passivated Rectifiers / SMB .....	12-4
3.0A Fast Recovery Glass Passivated Rectifiers / SMC .....	12-5
3.0A Fast Recovery Rectifiers / DO-201AD .....	12-5
3.0A Fast Recovery Glass Passivated Rectifiers / DO-201AD.....	12-5
6.0A Fast Recovery Rectifiers / R-6 .....	12-5

---

***Standard Recovery Rectifiers .....******13-1***

1.0A Standard Recovery Glass Passivated Rectifiers / MELF .....	13-1
1.0A Standard Recovery Glass Passivated Rectifiers / SMA.....	13-1
1.0A Standard Recovery Glass Passivated Rectifiers / SMB.....	13-1
1.0A Standard Recovery Glass Passivated Rectifiers / T-1 .....	13-2
1.0A Standard Recovery Rectifiers / DO-41 .....	13-2
1.0A Standard Recovery Glass Passivated Rectifiers / DO-41.....	13-2
1.0A Standard Recovery Rectifiers / A-405 .....	13-2
1.0A Standard Recovery Glass Passivated Rectifiers / A-405.....	13-2
1.5A Standard Recovery Glass Passivated Rectifiers / SMA.....	13-3
1.5A Standard Recovery Glass Passivated Rectifiers / SMB.....	13-3
1.5A Standard Recovery Rectifiers / DO-15 .....	13-3
1.5A Standard Recovery Glass Passivated Rectifiers / DO-15.....	13-3
1.5A Standard Recovery Rectifiers / DO-41 .....	13-3
2.0A Standard Recovery Rectifiers / DO-15 .....	13-4
2.0A Standard Recovery Glass Passivated Rectifiers / DO-15.....	13-4
3.0A Standard Recovery Glass Passivated Rectifiers / SMB.....	13-4
3.0A Standard Recovery Glass Passivated Rectifiers / SMC .....	13-4
3.0A Standard Recovery Rectifiers / DO-201AD .....	13-5
3.0A Standard Recovery Glass Passivated Rectifiers / DO-201AD.....	13-5
5.0A Standard Recovery Glass Passivated Rectifiers / POWERMITE® 3.....	13-5
5.0A Standard Recovery Glass Passivated Rectifiers / SMC .....	13-5
6.0A /10A Standard Recovery Rectifiers / R-6 .....	13-5

***Bridge Rectifiers.....******14-1***

0.35A Schottky Barrier Diode Arrays / SOT-26 .....	14-1
0.8A Glass Passivated Bridge Rectifiers / MiniDIP .....	14-1
1.0A Glass Passivated Bridge Rectifiers / DF-S .....	14-1
1.0A Glass Passivated Bridge Rectifiers / DF-M .....	14-1
1.5A Glass Passivated Bridge Rectifiers / DF-S .....	14-1
1.5A Glass Passivated Bridge Rectifiers / DF-M .....	14-2
1.5A Glass Passivated Bridge Rectifiers / WOG .....	14-2
1.5A Glass Passivated Bridge Rectifiers / KBP .....	14-2
2.0A Glass Passivated Bridge Rectifiers / WOG .....	14-2
2.0A Glass Passivated Bridge Rectifiers / KBP .....	14-2
3.0A Bridge Rectifiers / PBPC-3 .....	14-3
4.0A Glass Passivated Bridge Rectifiers / KBJ .....	14-3
4.0A Glass Passivated Bridge Rectifiers / GBU .....	14-3
6.0A Glass Passivated Bridge Rectifiers / KBJ .....	14-3
6.0A Glass Passivated Bridge Rectifiers / GBJ .....	14-3
6.0A Glass Passivated Bridge Rectifiers / GBU .....	14-4
6.0A Bridge Rectifiers / PBPC-3 .....	14-4
8.0A Glass Passivated Bridge Rectifiers / GBJ .....	14-4
8.0A Glass Passivated Bridge Rectifiers / GBU .....	14-4
8.0A Bridge Rectifiers / PBPC-8 .....	14-4
10A Glass Passivated Bridge Rectifiers / GBJ .....	14-5
10A Glass Passivated Bridge Rectifiers / GBU .....	14-5
10A Bridge Rectifiers / PBPC-8 .....	14-5
15A Glass Passivated Bridge Rectifiers / GBJ .....	14-5
15A Glass Passivated Bridge Rectifiers / GBPC .....	14-5
15A Glass Passivated Bridge Rectifiers / GBPC-W .....	14-6
20A Glass Passivated Bridge Rectifiers / GBJ .....	14-6

---

25A Glass Passivated Bridge Rectifiers / GBJ .....	14-6
25A Glass Passivated Bridge Rectifiers / GBPC.....	14-6
25A Glass Passivated Bridge Rectifiers / GBPC-W .....	14-6
35A Glass Passivated Bridge Rectifiers / GBPC.....	14-7
35A Glass Passivated Bridge Rectifiers / GBPC-W .....	14-7
<b><i>Index</i></b> .....	<b><i>I-1</i></b>

# New Product List

Product	Page
1N5819HW	2-6
2DA1774Q	4-1
2DA1774R	4-1
2DA1774S	4-1
2DC4617Q	4-1
2DC4617R	4-1
2DC4617S	4-1
2N7002T	5-1
AZ23C10W	8-9
AZ23C18W	8-9
AZ23C5V6W	8-9
AZ23C6V8W	8-9
B0520LW	2-6
B0520WS	2-6
B0530WS	2-6
B130LAW	2-6
B340LA	2-8
B340LB	2-9
BAS116	3-3
BAS116T	3-1
BAS16T	3-1
BAS16TW	3-2
BAS21T	3-1
BAS40-04T	2-1
BAS40-05T	2-1
BAS40-06T	2-1
BAS40BRW	2-3
BAS40T	2-1
BAS70-04T	2-1
BAS70-05T	2-1
BAS70-06T	2-1
BAS70BRW	2-3
BAS70DW-05	2-3
BAS70JW	2-3
BAS70T	2-1
BAT1000	2-6
BAT54AT	2-1
BAT54BRW	2-3
BAT54CT	2-1
BAT54ST	2-1
BAT54T	2-1
BAT750	2-6
BAV116W	3-2
BAV170	3-3
BAV170T	3-1
BAV199	3-3

Product	Page
BAV199T	3-1
BAV23A	3-3
BAV23C	3-3
BAV70T	3-1
BAV756DW	3-2
BAV99T	3-1
BAW156	3-3
BAW156T	3-1
BAW56T	3-1
BC807-16	4-4
BC807-25	4-4
BC807-40	4-4
BC817-16	4-4
BC817-25	4-4
BC817-40	4-4
BC846A	4-4
BC846AW	4-1
BC846B	4-4
BC846BW	4-1
BC847A	4-4
BC847AT	4-1
BC847AW	4-1
BC847B	4-4
BC847BS	4-2
BC847BT	4-1
BC847BW	4-1
BC847C	4-4
BC847CT	4-1
BC847CW	4-1
BC847PN	4-3
BC848A	4-4
BC848AW	4-1
BC848B	4-4
BC848BW	4-1
BC848C	4-4
BC848CW	4-1
BC856A	4-4
BC856AW	4-2
BC856B	4-4
BC856BW	4-2
BC857A	4-4
BC857AT	4-1
BC857AW	4-2
BC857B	4-4
BC857BT	4-1
BC857BW	4-2

Product	Page
BC857C	4-4
BC857CT	4-1
BC857CW	4-2
BC858A	4-4
BC858AW	4-2
BC858B	4-4
BC858BW	4-2
BC858C	4-4
BC858CW	4-2
BSS138DW	5-1
BSS138W	5-1
BSS84DW	5-1
BSS84W	5-1
BZT52C2V0S	8-6
BZX84C10T	8-1
BZX84C11T	8-1
BZX84C12T	8-1
BZX84C13T	8-1
BZX84C15T	8-1
BZX84C16T	8-1
BZX84C18T	8-1
BZX84C20T	8-1
BZX84C22T	8-1
BZX84C24T	8-1
BZX84C27T	8-1
BZX84C2V4T	8-1
BZX84C2V7T	8-1
BZX84C30T	8-1
BZX84C33T	8-1
BZX84C36T	8-1
BZX84C39T	8-1
BZX84C3V0T	8-1
BZX84C3V3T	8-1
BZX84C3V6T	8-1
BZX84C3V9T	8-1
BZX84C4V3T	8-1
BZX84C4V7T	8-1
BZX84C5V1T	8-1
BZX84C5V6T	8-1
BZX84C6V2T	8-1
BZX84C6V8T	8-1
BZX84C7V5T	8-1
BZX84C8V2T	8-1
BZX84C9V1T	8-1
CTA2N1P	7-1
CTA2P1N	7-1

Product	Page
DCX114EU	6-3
DCX114TU	6-3
DCX114YU	6-3
DCX123JU	6-3
DCX124EU	6-3
DCX143TU	6-3
DCX144EU	6-3
DDA114EU	6-3
DDA114TU	6-3
DDA114YU	6-3
DDA123JU	6-3
DDA124EU	6-3
DDA143TU	6-3
DDA144EU	6-3
DDC114EU	6-3
DDC114TU	6-3
DDC114YU	6-3
DDC123JU	6-3
DDC124EU	6-3
DDC143TU	6-3
DDC144EU	6-3
DDTA113TCA	6-1
DDTA113TE	6-1
DDTA113TUA	6-1
DDTA113ZCA	6-1
DDTA113ZE	6-1
DDTA113ZUA	6-1
DDTA114ECA	6-1
DDTA114EE	6-1
DDTA114EUA	6-1
DDTA114GCA	6-1
DDTA114GE	6-1
DDTA114GUA	6-1
DDTA114TCA	6-1
DDTA114TE	6-1
DDTA114TUA	6-1
DDTA114WCA	6-1
DDTA114WE	6-1
DDTA114WUA	6-1
DDTA114YCA	6-1
DDTA114YE	6-1
DDTA114YUA	6-1
DDTA115ECA	6-1
DDTA115EE	6-1
DDTA115EUA	6-1
DDTA115GCA	6-1

**New Product List (continued)**

<b>Product</b>	<b>Page</b>	<b>Product</b>	<b>Page</b>	<b>Product</b>	<b>Page</b>	<b>Product</b>	<b>Page</b>
DDTA115GE	6-1	DDTA143ZCA	6-1	DDTC113TCA	6-1	DDTC124EUA	6-1
DDTA115GUA	6-1	DDTA143ZE	6-1	DDTC113TE	6-1	DDTC124GCA	6-1
DDTA115TCA	6-1	DDTA143ZUA	6-1	DDTC113TUA	6-1	DDTC124GE	6-1
DDTA115TE	6-1	DDTA144ECA	6-1	DDTC113ZCA	6-1	DDTC124GUA	6-1
DDTA115TUA	6-1	DDTA144EE	6-1	DDTC113ZE	6-1	DDTC124TCA	6-1
DDTA123ECA	6-1	DDTA144EUA	6-1	DDTC113ZUA	6-1	DDTC124TE	6-1
DDTA123EE	6-1	DDTA144GCA	6-1	DDTC114ECA	6-1	DDTC124TUA	6-1
DDTA123EUA	6-1	DDTA144GE	6-1	DDTC114EE	6-1	DDTC124XCA	6-1
DDTA123JCA	6-1	DDTA144GUA	6-1	DDTC114EUA	6-1	DDTC124XE	6-1
DDTA123JE	6-1	DDTA144TCA	6-1	DDTC114GCA	6-1	DDTC124XUA	6-1
DDTA123JUA	6-1	DDTA144TE	6-1	DDTC114GE	6-1	DDTC125TCA	6-1
DDTA123TCA	6-1	DDTA144TUA	6-1	DDTC114GUA	6-1	DDTC125TE	6-1
DDTA123TE	6-1	DDTA144VCA	6-1	DDTC114TCA	6-1	DDTC125TUA	6-1
DDTA123TUA	6-1	DDTA144VE	6-1	DDTC114TE	6-1	DDTC143ECA	6-1
DDTA123YCA	6-1	DDTA144VUA	6-1	DDTC114TUA	6-1	DDTC143EE	6-1
DDTA123YE	6-1	DDTA144WCA	6-1	DDTC114WCA	6-1	DDTC143EUA	6-1
DDTA123YUA	6-1	DDTA144WE	6-1	DDTC114WE	6-1	DDTC143FCA	6-1
DDTA124ECA	6-1	DDTA144WUA	6-1	DDTC114WUA	6-1	DDTC143FE	6-1
DDTA124EE	6-1	DDTB112CC	6-3	DDTC114YCA	6-1	DDTC143FUA	6-1
DDTA124EUA	6-1	DDTB112CU	6-3	DDTC114YE	6-1	DDTC143TCA	6-1
DDTA124GCA	6-1	DDTB113EC	6-3	DDTC114YUA	6-1	DDTC143TE	6-1
DDTA124GE	6-1	DDTB113EU	6-3	DDTC115ECA	6-1	DDTC143TUA	6-1
DDTA124GUA	6-1	DDTB113ZC	6-2	DDTC115EE	6-1	DDTC143XCA	6-1
DDTA124TCA	6-1	DDTB113ZU	6-2	DDTC115EUA	6-1	DDTC143XE	6-1
DDTA124TE	6-1	DDTB114EC	6-2	DDTC115GCA	6-1	DDTC143XUA	6-1
DDTA124TUA	6-1	DDTB114EU	6-2	DDTC115GE	6-1	DDTC143ZCA	6-1
DDTA124XCA	6-1	DDTB114GC	6-2	DDTC115GUA	6-1	DDTC143ZE	6-1
DDTA124XE	6-1	DDTB114GU	6-2	DDTC115TCA	6-1	DDTC143ZUA	6-1
DDTA124XUA	6-1	DDTB114TC	6-2	DDTC115TE	6-1	DDTC144ECA	6-1
DDTA125TCA	6-1	DDTB114TU	6-2	DDTC115TUA	6-1	DDTC144EE	6-1
DDTA125TE	6-1	DDTB122JC	6-2	DDTC123ECA	6-1	DDTC144EUA	6-1
DDTA125TUA	6-1	DDTB122JU	6-2	DDTC123EE	6-1	DDTC144GCA	6-1
DDTA143ECA	6-1	DDTB123EC	6-2	DDTC123EUA	6-1	DDTC144GE	6-1
DDTA143EE	6-1	DDTB123EU	6-2	DDTC123JCA	6-1	DDTC144GUA	6-1
DDTA143EUA	6-1	DDTB123TC	6-2	DDTC123JE	6-1	DDTC144TCA	6-1
DDTA143FCA	6-1	DDTB123TU	6-2	DDTC123JUA	6-1	DDTC144TE	6-1
DDTA143FE	6-1	DDTB123YC	6-2	DDTC123TCA	6-1	DDTC144TUA	6-1
DDTA143FUA	6-1	DDTB123YU	6-2	DDTC123TE	6-1	DDTC144VCA	6-1
DDTA143TCA	6-1	DDTB133HC	6-2	DDTC123TUA	6-1	DDTC144VE	6-1
DDTA143TE	6-1	DDTB133HU	6-2	DDTC123YCA	6-1	DDTC144VUA	6-1
DDTA143TUA	6-1	DDTB143EC	6-2	DDTC123YE	6-1	DDTC144WCA	6-1
DDTA143XCA	6-1	DDTB143EU	6-2	DDTC123YUA	6-1	DDTC144WE	6-1
DDTA143XE	6-1	DDTB143TC	6-2	DDTC124ECA	6-1	DDTC144WUA	6-1
DDTA143XUA	6-1	DDTB143TU	6-2	DDTC124EE	6-1	DDTD112CC	6-2

**New Product List (continued)**

<b>Product</b>	<b>Page</b>	<b>Product</b>	<b>Page</b>	<b>Product</b>	<b>Page</b>	<b>Product</b>	<b>Page</b>
DDTD112CU	6-2	MMBD3004S	3-3	MMBZ5254BT	8-2	TB01500L	9-11
DDTD113EC	6-2	MMBD4148TW	3-2	MMBZ5255BT	8-2	TB01500M	9-12
DDTD113EU	6-2	MMBD4448HSDW	3-2	MMBZ5256BT	8-2	TB01800H	9-13
DDTD113ZC	6-2	MMBD4448HT	3-1	MMBZ5257BT	8-2	TB01800L	9-11
DDTD113ZU	6-2	MMBD4448HTA	3-1	MMBZ5258BT	8-2	TB01800M	9-12
DDTD114EC	6-2	MMBD4448HTC	3-1	MMBZ5259BT	8-2	TB02300H	9-13
DDTD114EU	6-2	MMBD4448HTM	3-3	MMBZ5V6AL	9-1	TB02300L	9-11
DDTD114GC	6-2	MMBD4448HTS	3-1	MMBZ6V8AL	9-1	TB02300M	9-12
DDTD114GU	6-2	MMBT123S	4-4	MMBZ9V1AL	9-1	TB02600H	9-13
DDTD114TC	6-2	MMBT2222AT	4-1	MURS320	11-3	TB02600L	9-11
DDTD114TU	6-2	MMBT2907AT	4-1	QZX363C15	8-5	TB02600M	9-12
DDTD122JC	6-2	MMBT3906T	4-1	SB370	10-1	TB03100H	9-13
DDTD122JU	6-2	MMBT4401T	4-1	SBG1630CT	2-11	TB03100L	9-11
DDTD123EC	6-2	MMBT4403T	4-1	SBG1635CT	2-11	TB03100M	9-12
DDTD123EU	6-2	MMBZ10VAL	9-1	SBG1640CT	2-11	TB03500H	9-13
DDTD123TC	6-2	MMBZ15VAL	9-1	SBG1645CT	2-11	TB03500L	9-11
DDTD123TU	6-2	MMBZ15VDL	9-1	SBL1025L	10-3	TB03500M	9-12
DDTD123YC	6-2	MMBZ18VAL	9-1	SBL1030L	10-3	TB0640H	9-13
DDTD123YU	6-2	MMBZ20VAL	9-1	SBM1040	2-10	TB0640L	9-11
DDTD133HC	6-2	MMBZ27VAL	9-1	SBM1040CT	2-10	TB0640M	9-12
DDTD133HU	6-2	MMBZ27VCL	9-1	SBM340	2-8	TB0720H	9-13
DDTD143EC	6-2	MMBZ33VAL	9-1	SBM540	2-9	TB0720L	9-11
DDTD143EU	6-2	MMBZ5221BT	8-2	SBM835L	2-9	TB0720M	9-12
DDTD143TC	6-2	MMBZ5223BT	8-2	SD103ASDM	2-4, 14-1	TB0900H	9-13
DDTD143TU	6-2	MMBZ5225BT	8-2	SDM10K45	2-2	TB0900L	9-11
DLP05LC	7-3, 9-1	MMBZ5226BT	8-2	SDM10P45	2-1	TB0900M	9-12
DLPT05	7-3, 9-2	MMBZ5227BT	8-2	SDM20E40C	2-4	TBZ363C20V8	8-5
DDMT3904W	4-6, 7-2	MMBZ5228BT	8-2	SDM40E20LS	2-6	TBZ363C5V5	8-5
DDMT3906W	4-6, 7-2	MMBZ5229BT	8-2	SDMG0340L	2-2	TBZ363C6V4	8-5
DDMT847B	4-6, 7-2	MMBZ5230BT	8-2	SDMG0340LA	2-2	TBZ363C7V0	8-5
DDMT857B	4-6, 7-2	MMBZ5231BT	8-2	SDMG0340LC	2-2	TLC363C20V8	8-5
IMT4	4-5	MMBZ5232BT	8-2	SDMG0340LS	2-2	TLC363C5V5	8-5
IMX8	4-5	MMBZ5234BT	8-2	SDMK0340L	2-2	TLC363C6V4	8-5
MBRB20100CT	2-11	MMBZ5235BT	8-2	SDMP0340LAT	2-1	TLC363C7V0	8-5
MBRB2070CT	2-11	MMBZ5236BT	8-2	SDMP0340LCT	2-1	UDZ10B	8-8
MBRB2080CT	2-11	MMBZ5237BT	8-2	SDMP0340LST	2-1	UDZ11B	8-8
MBRB2090CT	2-11	MMBZ5239BT	8-2	SDMP0340LT	2-1	UDZ12B	8-8
MBRD1035CTL	2-10	MMBZ5240BT	8-2	SM5J	13-5	UDZ13B	8-8
MBRD1040	2-10	MMBZ5241BT	9-2	SMAT70A	9-3	UDZ15B	8-8
MBRD1040CT	2-10	MMBZ5242BT	8-2	SMBT70A	9-6	UDZ16B	8-8
MBRD835L	2-10	MMBZ5243BT	8-2	TB01100H	9-13	UDZ18B	8-8
MBRM3100	2-8	MMBZ5245BT	8-2	TB01100L	9-11	UDZ20B	8-8
MBRM360	2-8	MMBZ5246BT	8-2	TB01100M	9-12	UDZ22B	8-8
MBRM5100	2-9	MMBZ5248BT	8-2	TB01300H	9-13	UDZ24B	8-8
MBRM560	2-9	MMBZ5250BT	8-2	TB01300L	9-11	UDZ27B	8-8
MBRM760	2-9	MMBZ5251BT	8-2	TB01300M	9-12	UDZ2V0B	8-8
MMBD2004S	3-3	MMBZ5252BT	8-2	TB01500H	9-13	UDZ2V2B	8-8

**New Product List (continued)**

<b>Product</b>	<b>Page</b>
UDZ2V4B	8-8
UDZ2V7B	8-8
UDZ30B	8-8
UDZ33B	8-8
UDZ36B	8-8
UDZ39B	8-8

<b>Product</b>	<b>Page</b>
UDZ3V0B	8-8
UDZ3V3B	8-8
UDZ3V6B	8-8
UDZ3V9B	8-8
UDZ43B	8-8
UDZ47B	8-8

<b>Product</b>	<b>Page</b>
UDZ4V3B	8-8
UDZ4V7B	8-8
UDZ51B	8-8
UDZ56B	8-8
UDZ5V1B	8-8
UDZ5V6B	8-8

<b>Product</b>	<b>Page</b>
UDZ6V2B	8-8
UDZ6V8B	8-8
UDZ7V5B	8-8
UDZ8V2B	8-8
UDZ9V1B	8-8

# *About This Product Catalog*

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Diodes Incorporated is a customer-oriented manufacturer and supplier of high-quality discrete semiconductor components. From our QS-9000 and ISO-9000 certified manufacturing facilities in China, Taiwan, and USA, we bring you a broad line of discrete components in surface mount packages. These include:

- Schottky Diodes and Rectifiers, Switching Diodes, and Zener Diodes
- High-density Diode and Transistor Arrays in ultra-miniature surface mount packages
- Transient Voltage Suppressors (TVSSs)
- NPN and PNP Transistors, Prebiased Transistors and MOSFETs
- Super-/Ultra Fast-/Fast-/Standard Recovery Rectifiers and Bridge Rectifiers

This *Product Catalog* gives you easy access to technical information pertaining to our line of discrete semiconductor products. It allows you to locate specific product part numbers and view the associated data at a glance. For each component, the *Product Catalog* provides:

1. Part numbers
2. Electrical and Mechanical characteristics

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## **NOTE:**

*Throughout the text, the term “New” is used to highlight new products. For an index of these products, refer to the New Products List.*

*To locate information on specific components, refer to the Table of Contents and Index.*

*To assist you in:*

- Selecting packages, turn to Appendix A, *Product Packaging Information*.
- Crossing from other manufacturers’ parts, turn to Appendix B, *Cross Reference*.

## **Technical Support**

For technical support, contact Diodes Incorporated:

### **North America**

3050 East Hillcrest Drive, Westlake Village, CA 91362-3154  
Tel: (805) 446-4800 Fax: (805) 446-4850

### **Asia**

2nd Fl, 501-15 Chung Cheng Road  
Hsin Tien, Taipei  
Taiwan, R.O.C.  
Tel: 011-886-22-218-0116 Fax: 011-886-22-218-0119

## **Product Ordering / Sampling**

To order products or request samples, please contact your local Sales Representative or visit our website at **[www.diodes.com](http://www.diodes.com)**.

A complete list of our Sales Representatives is available on our website.

# Schottky Diodes

Type Number	Peak Repetitive Reverse Voltage	Forward Continuous Current ( $\dagger$ )	Forward Voltage Drop		Maximum Reverse Current ( $\dagger$ )		Capacitance ( $\dagger$ )	Pin-out Config.
	$V_{RRM}$	$I_{FM}$	$V_F @ I_F$		$I_R @ V_R$		$C_{TOT}$	
	V	mA	V	mA	$\mu A$	V	pF (typ)	

## 150mW Schottky Diodes / SOT-523

BAS40T <sup>NEW</sup>	40	200	1.00	40	0.2	30	5 max	Fig. 1
BAS40-04T <sup>NEW</sup>	40	200	1.00	40	0.2	30	5 max	Fig. 4
BAS40-05T <sup>NEW</sup>	40	200	1.00	40	0.2	30	5 max	Fig. 3
BAS40-06T <sup>NEW</sup>	40	200	1.00	40	0.2	30	5 max	Fig. 2
BAS70T <sup>NEW</sup>	70	70	1.00	15	0.1	50	2 max	Fig. 1
BAS70-04T <sup>NEW</sup>	70	70	1.00	15	0.1	50	2 max	Fig. 4
BAS70-05T <sup>NEW</sup>	70	70	1.00	15	0.1	50	2 max	Fig. 3
BAS70-06T <sup>NEW</sup>	70	70	1.00	15	0.1	50	2 max	Fig. 2
BAT54T <sup>NEW</sup>	30	200	0.32	1	2.0	25	10 max	Fig. 1
BAT54AT <sup>NEW</sup>	30	200	0.32	1	2.0	25	10 max	Fig. 2
BAT54CT <sup>NEW</sup>	30	200	0.32	1	2.0	25	10 max	Fig. 3
BAT54ST <sup>NEW</sup>	30	200	0.32	1	2.0	25	10 max	Fig. 4
SDMP0340LT <sup>NEW</sup>	40	30*	0.37	1	0.5	30	2	Fig. 1
SDMP0340LAT <sup>NEW</sup>	40	30*	0.37	1	0.5	30	2	Fig. 2
SDMP0340LCT <sup>NEW</sup>	40	30*	0.37	1	0.5	30	2	Fig. 3
SDMP0340LST <sup>NEW</sup>	40	30*	0.37	1	0.5	30	2	Fig. 4
SDM10P45 <sup>NEW</sup>	45	100*	0.60	50	1.0	10	6	Fig. 1

\*  $I_O$ , Average Rectified Current

## 200mW Schottky Diodes / SOT-323

BAT54W	30	200	0.32	1.0	2.0	25	10 max	Fig. 1
BAT54AW	30	200	0.32	1.0	2.0	25	10 max	Fig. 2
BAT54CW	30	200	0.32	1.0	2.0	25	10 max	Fig. 3
BAT54SW	30	200	0.32	1.0	2.0	25	10 max	Fig. 4
BAS40W	40	200	1.00	40	0.2	30	5.0 max	Fig. 1
BAS40W-04	40	200	1.00	40	0.2	30	5.0 max	Fig. 4
BAS40W-05	40	200	1.00	40	0.2	30	5.0 max	Fig. 3
BAS40W-06	40	200	1.00	40	0.2	30	5.0 max	Fig. 2
BAS70W	70	70	1.00	15	0.1	50	2.0 max	Fig. 1
BAS70W-04	70	70	1.00	15	0.1	50	2.0 max	Fig. 4
BAS70W-05	70	70	1.00	15	0.1	50	2.0 max	Fig. 3
BAS70W-06	70	70	1.00	15	0.1	50	2.0 max	Fig. 2

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Forward Continuous Current ( $\dagger$ )	Forward Voltage Drop		Maximum Reverse Current ( $\dagger$ )		Capacitance ( $\dagger$ )	Pin-out Config.
	$V_{RRM}$	$I_F$	$V_F @ I_F$		$I_R @ V_R$		$C_{TOT}$	
	V	mA	V	mA	$\mu A$	V	pF (typ)	

## 200mW Schottky Diodes / SOT-323 (continued)



<b>SDMG0340L NEW</b>	40	30*	0.37	1.0	1.0	10	2.0	Fig. 1
<b>SDMG0340LA NEW</b>	40	30*	0.37	1.0	1.0	10	2.0	Fig. 2
<b>SDMG0340LC NEW</b>	40	30*	0.37	1.0	1.0	10	2.0	Fig. 3
<b>SDMG0340LS NEW</b>	40	30*	0.37	1.0	1.0	10	2.0	Fig. 4

\*  $I_O$ , Average Rectified Forward Current

## 200mW Schottky Diodes / SOD-323



<b>BAT42WS</b>	30	200	0.40	10	0.5	25	10 max	N/A
<b>BAT43WS</b>	30	200	0.33	2	0.5	25	10 max	N/A
<b>BAT54WS</b>	30	200	0.50	30	2.0	25	10 max	N/A
<b>SD101AWS</b>	60	15	1.00	15	0.2	50	2.0 max	N/A
<b>SD101BWS</b>	50	15	0.95	15	0.2	40	2.1 max	N/A
<b>SD101CWS</b>	40	15	0.90	15	0.2	30	2.2 max	N/A
<b>SD103AWS</b>	40	350	0.60	200	5.0	30	50	N/A
<b>SD103BWS</b>	30	350	0.60	200	5.0	20	50	N/A
<b>SD103CWS</b>	20	350	0.60	200	5.0	10	50	N/A
<b>SD107WS</b>	30	100	0.80	100	1.0	25	7	N/A
<b>SDM10K45 NEW</b>	45	100*	.45	10	1.0	10	6.0	N/A
<b>SDMK0340L NEW **</b>	40	30*	.37	1	0.5	30	2	N/A
<b>1N5711WS</b>	70	15	1.00	15	0.2	50	2.0 max	N/A

\*  $I_O$ , Average Rectified Forward Current

\*\* 250mW

( $\dagger$ ) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Forward Continuous Current ( $\dagger$ )	Forward Voltage Drop		Maximum Reverse Current ( $\dagger$ )	Capacitance ( $\dagger$ )	Pin-out Config.
	$V_{RRM}$	$I_{FM}$	$V_F @ I_F$		$I_R @ V_R$	$C_{TOT}$	
	V	mA	V	mA	$\mu A$	V	pF (typ)

### 200mW Schottky Diodes / SOT-363

BAT54DW	30	200	0.32	1	2.0	25	10 max	Fig. 5
BAT54JW	30	200	0.32	1	2.0	25	10 max	Fig. 6
BAT54TW	30	200	0.32	1	2.0	25	10 max	Fig. 7
BAT54ADW	30	200	0.32	1	2.0	25	10 max	Fig. 8
BAT54BRW NEW	30	200	0.32	1	2.0	25	10 max	Fig. 9
BAT54CDW	30	200	0.32	1	2.0	25	10 max	Fig. 10
BAT54SDW	30	200	0.32	1	2.0	25	10 max	Fig. 11
BAS40TW	40	200	1.00	40	0.2	30	5 max	Fig. 7
BAS40BRW NEW	40	200	1.00	40	0.2	30	5 max	Fig. 9
BAS40DW-04	40	200	1.00	40	0.2	30	5 max	Fig. 11
BAS40DW-05	40	200	1.00	40	0.2	30	5 max	Fig. 10
BAS40DW-06	40	200	1.00	40	0.2	30	5 max	Fig. 8
BAS70JW NEW	70	70	1.00	15	0.1	50	2	Fig. 6
BAS70TW	70	70	1.00	15	0.1	50	2 max	Fig. 7
BAS70BRW NEW	70	70	1.00	15	0.1	50	2 max	Fig. 9
BAS70DW-04	70	70	1.00	15	0.1	50	2 max	Fig. 11
BAS70DW-05 NEW	70	70	1.00	15	0.1	50	2 max	Fig. 10
BAS70DW-06	70	70	1.00	15	0.1	50	2 max	Fig. 8
QSBT40	30	200	1.00	100	2	25	10	Fig. 12

### 200mW Schottky Diodes / SOT-23

BAT54	30	200	0.32	1	2.0	25	10	Fig. 1
BAT54A	30	200	0.32	1	2.0	25	10	Fig. 2
BAT54C	30	200	0.32	1	2.0	25	10	Fig. 3
BAT54S	30	200	0.32	1	2.0	25	10	Fig. 4
BAS40*	40	200	1.00	40	0.2	30	4	Fig. 1
BAS40-04*	40	200	1.00	40	0.2	30	4	Fig. 4
BAS40-05*	40	200	1.00	40	0.2	30	4	Fig. 3
BAS40-06*	40	200	1.00	40	0.2	30	4	Fig. 2
BAS70	70	70	1.00	15	0.1	50	2 max	Fig. 1
BAS70-04	70	70	1.00	15	0.1	50	2 max	Fig. 4
BAS70-05	70	70	1.00	15	0.1	50	2 max	Fig. 3
BAS70-06	70	70	1.00	15	0.1	50	2 max	Fig. 2

\* 350mW

### 200mW Schottky Diodes / SOD-123

BAT42W	30	200	0.40	10	0.5	25	10 max	N/A
BAT43W	30	200	0.33	2	0.5	25	10 max	N/A
BAT46W	100	150	0.45	10	0.5	1.5	10	N/A
1N5711W	70	15	1.00	15	0.2	50	2.0 max	N/A

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Forward Continuous Current (†)	Forward Voltage Drop		Maximum Reverse Current (†)		Capacitance (†)	Pin-out Config.
	$V_{RRM}$	$I_{FM}$	$V_F @ I_F$		$I_R @ V_R$		$C_{TOT}$	
	V	mA	V	mA	$\mu A$	V	pF (typ)	
<b>400mW Schottky Diodes / SOD-123</b>								
SD101AW	60	15	1.00	15	0.20	50	2.0 max	N/A
SD101BW	50	15	0.95	15	0.20	40	2.1 max	N/A
SD101CW	40	15	0.90	15	0.20	30	2.2 max	N/A
SD103AW	40	350	0.60	200	5.0	30	50	N/A
SD103BW	30	350	0.60	200	5.0	20	50	N/A
SD103CW	20	350	0.60	200	5.0	10	50	N/A
1N6263W	60	15	1.00	15	0.2	50	2.0	N/A
<b>400mW Schottky Diodes / SC-59</b> NEW								
SDM20E40C NEW	40	400*	0.50	200	70	25	100 max	Fig. 3
<b>400mW Schottky Diodes / SOT-26</b> NEW								
SD103ASDM NEW	40	350	0.60	200	5.0	30	50	Fig. 11
<b>400mW Schottky Diodes / mini-MELF</b>								
LLSD101A	60	15	1.00	15	0.20	50	2.0 max	N/A
LLSD101B	50	15	0.95	15	0.20	40	2.1 max	N/A
LLSD101C	40	15	0.90	15	0.20	30	2.2 max	N/A
LL5711**	70	15	1.00	15	0.20	50	2.0 max	N/A
LL6263	60	15	1.00	15	0.20	50	2.0	N/A
LL46*	100	150	0.45	10	5.0	75	10	N/A
LL42*	30	200	0.40	10	0.50	25	10	N/A
LL43*	30	200	0.33	2	0.50	25	10	N/A
LLSD103A	40	350	0.60	200	5.0	30	50	N/A
LLSD103B	30	350	0.60	200	5.0	20	50	N/A
LLSD103C	20	350	0.60	200	5.0	10	50	N/A

\* Power dissipation ( $P_d$ )=200mW

\*\*Power dissipation ( $P_d$ )=250mW

\*  $I_O$ , Average Rectified Current

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Forward Continuous Current ( $\dagger$ )	Forward Voltage Drop		Maximum Reverse Current ( $\dagger$ )		Capacitance ( $\dagger$ )	Pin-out Config.	
	$V_{RRM}$	$I_{FM}$	$V_F @ I_F$		$I_R @ V_R$				
	V	mA	V	mA	$\mu A$	V	pF (typ)		

### 400mW Schottky Diodes / DO-35



SD101A	60	15	1.00	15	0.20	50	2.0 max	N/A
SD101B	50	15	0.95	15	0.20	40	2.1 max	N/A
SD101C	40	15	0.90	15	0.20	30	2.2 max	N/A
1N5711**	70	15	1.00	15	0.20	50	2.0 max	N/A
1N6263	60	15	1.00	15	0.20	50	2.0	N/A
BAT46*	100	150	0.45	10	5.0	75	6.0	N/A
BAT42*	30	200	0.40	10	0.50	25	10	N/A
BAT43*	30	200	0.33	2	0.50	25	10	N/A
SD103A	40	350	0.60	200	5.0	30	50	N/A
SD103B	30	350	0.60	200	5.0	20	50	N/A
SD103C	20	350	0.60	200	5.0	10	50	N/A

\* Power dissipation ( $P_d$ )=200mW

\*\* Power dissipation ( $P_d$ )=250mW

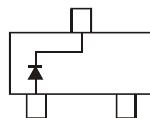


Figure 1, Single

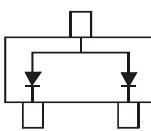


Figure 2, Common Anode

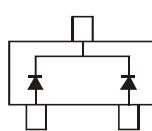


Figure 3, Common Cathode

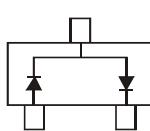


Figure 4, Series

### SOT-23, SOT-323, SOT-523 and SC-59

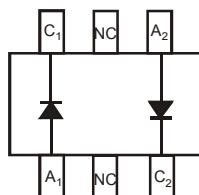


Figure 5

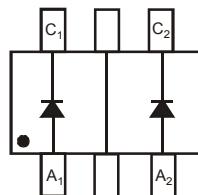


Figure 6

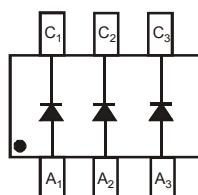


Figure 7

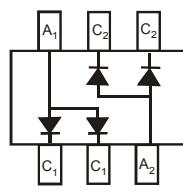


Figure 8

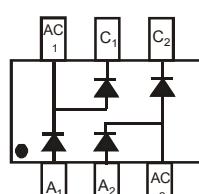


Figure 9

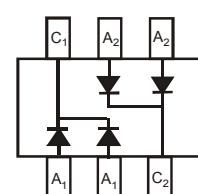


Figure 10

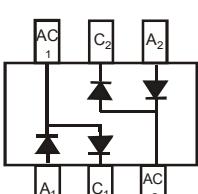


Figure 11

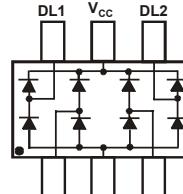
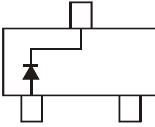
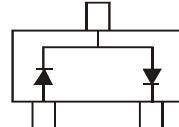


Figure 12

### SOT-363 and SOT-26

(†) Reference product datasheet for specific test conditions.

# Surface Mount Schottky Rectifiers

Type Number	Peak Repetitive Reverse Voltage	Maximum Average Rectified Current (t)	Peak Forward Surge Current (†)	Forward Voltage Drop		Maximum Reverse Current (t)		Pin-out Config.	
	V <sub>RRM</sub>	I <sub>O</sub> @ T <sub>T</sub>	I <sub>FSM</sub>	V <sub>F</sub> @ I <sub>F</sub>		I <sub>R</sub> @ V <sub>R</sub>			
	V	A      °C	A	V	A	mA	V		
<b>0.4A Schottky Rectifiers / SOT-23</b> 									
SDM40E20LS 	20	0.4	25	2	0.430	0.5	0.25	20	Fig. 2
<b>0.5A Schottky Rectifiers / SOD-323</b> 									
B0520WS  B0530WS 	20 30	0.5 0.5	25 25	2 2	0.430 0.450	0.5 0.5	0.25 0.5	20 30	N/A N/A
<b>0.5A Schottky Rectifiers / SOT-23</b> 									
BAT400D	40	0.5	25	3	0.550	0.5	0.05	30	Fig. 1
<b>0.5A Schottky Rectifiers / SOD-123</b> 									
B0520LW  B0530W  B0540W	20 30 40	0.5 0.5 0.5	100 100 100	5.5 5.5 5.5	0.385 0.430 0.510	0.5 0.5 0.5	0.25 0.13 0.02	20 30 40	N/A N/A N/A
<b>0.75A Schottky Rectifiers / SOT-23</b> 									
BAT750 	40	0.75	25	5.5	0.49	0.75	0.1	30	Fig. 1
<b>1.0A Schottky Rectifiers / SOT-23</b> 									
BAT1000 	40	1.0	25	5.5	0.50	1.0	0.1	30	Fig. 1
<b>1.0A Schottky Rectifiers / SOD-123</b> 									
B130LAW  1N5819HW 	30 40	1.0 1.0	25 90	22 25	0.37 0.45	0.7 1.0	1.5 1.0	30 40	N/A N/A
 <i>Figure 1, Single</i>									
 <i>Figure 2, Dual Series</i>									

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Maximum Average Rectified Current (†)		Peak Forward Surge Current (†)	Forward Voltage Drop		Maximum Reverse Current (†)	
	$V_{RRM}$	$I_O @ T_T$		$I_{FSM}$	$V_F @ I_F$		$I_R @ V_R$	
	V	A	°C	A	V	A	mA	V

### 1.0A Schottky Rectifiers / SMA

B120	20	1.0	130	30	0.50	1.0	0.5	20
B130	30	1.0	130	30	0.50	1.0	0.5	30
B140	40	1.0	130	30	0.50	1.0	0.5	40
B150	50	1.0	130	30	0.70	1.0	0.5	50
B160	60	1.0	130	30	0.70	1.0	0.5	60
B170	70	1.0	125	30	0.79	1.0	0.5	70
B180	80	1.0	125	30	0.79	1.0	0.5	80
B190	90	1.0	125	30	0.79	1.0	0.5	90
B1100	100	1.0	125	30	0.79	1.0	0.5	100
B130L	30	1.0	105	25	0.41	1.0	0.4	15

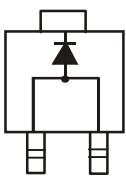
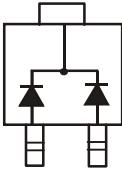
### 1.0A Schottky Rectifiers / SMB

B120B	20	1.0	130	30	0.50	1.0	0.5	20
B130B	30	1.0	130	30	0.50	1.0	0.5	30
B140B	40	1.0	130	30	0.50	1.0	0.5	40
B150B	50	1.0	130	30	0.70	1.0	0.5	50
B160B	60	1.0	130	30	0.70	1.0	0.5	60
B140HB	40	1.0	115	45	0.53	1.0	0.1	40
B1100LB	100	1.0	120	50	0.75	1.0	0.5	100

### 1.0A Schottky Rectifiers / MELF

1N5817M	20	1.0	90	25	0.45	1.0	1.0	20
1N5818M	30	1.0	90	25	0.55	1.0	1.0	30
1N5819M	40	1.0	90	25	0.60	1.0	1.0	40

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Maximum Average Rectified Current (†)		Peak Forward Surge Current (†)	Forward Voltage Drop		Maximum Reverse Current (†)		Pin-out Config.																																																																																										
	$V_{RRM}$	$I_O @ T_T$		$I_{FSM}$	$V_F @ I_F$		$I_R @ V_R$																																																																																												
	V	A	°C	A	V	A	mA	V																																																																																											
<b>2.0A Schottky Rectifiers / SMA</b>																																																																																																			
<table border="1"> <tr><td>B220A</td><td>20</td><td>2.0</td><td>100</td><td>50</td><td>0.50</td><td>2.0</td><td>0.5</td><td>20</td><td>N/A</td></tr> <tr><td>B230A</td><td>30</td><td>2.0</td><td>100</td><td>50</td><td>0.50</td><td>2.0</td><td>0.5</td><td>30</td><td>N/A</td></tr> <tr><td>B240A</td><td>40</td><td>2.0</td><td>100</td><td>50</td><td>0.50</td><td>2.0</td><td>0.5</td><td>40</td><td>N/A</td></tr> <tr><td>B250A</td><td>50</td><td>2.0</td><td>100</td><td>50</td><td>0.70</td><td>2.0</td><td>0.5</td><td>50</td><td>N/A</td></tr> <tr><td>B260A</td><td>60</td><td>2.0</td><td>100</td><td>50</td><td>0.70</td><td>2.0</td><td>0.5</td><td>60</td><td>N/A</td></tr> </table>										B220A	20	2.0	100	50	0.50	2.0	0.5	20	N/A	B230A	30	2.0	100	50	0.50	2.0	0.5	30	N/A	B240A	40	2.0	100	50	0.50	2.0	0.5	40	N/A	B250A	50	2.0	100	50	0.70	2.0	0.5	50	N/A	B260A	60	2.0	100	50	0.70	2.0	0.5	60	N/A																																								
B220A	20	2.0	100	50	0.50	2.0	0.5	20	N/A																																																																																										
B230A	30	2.0	100	50	0.50	2.0	0.5	30	N/A																																																																																										
B240A	40	2.0	100	50	0.50	2.0	0.5	40	N/A																																																																																										
B250A	50	2.0	100	50	0.70	2.0	0.5	50	N/A																																																																																										
B260A	60	2.0	100	50	0.70	2.0	0.5	60	N/A																																																																																										
<b>2.0A Schottky Rectifiers / SMB</b>																																																																																																			
<table border="1"> <tr><td>B220</td><td>20</td><td>2.0</td><td>100</td><td>50</td><td>0.50</td><td>2.0</td><td>0.5</td><td>20</td><td>N/A</td></tr> <tr><td>B230</td><td>30</td><td>2.0</td><td>100</td><td>50</td><td>0.50</td><td>2.0</td><td>0.5</td><td>30</td><td>N/A</td></tr> <tr><td>B240</td><td>40</td><td>2.0</td><td>100</td><td>50</td><td>0.50</td><td>2.0</td><td>0.5</td><td>40</td><td>N/A</td></tr> <tr><td>B250</td><td>50</td><td>2.0</td><td>100</td><td>50</td><td>0.70</td><td>2.0</td><td>0.5</td><td>50</td><td>N/A</td></tr> <tr><td>B260</td><td>60</td><td>2.0</td><td>100</td><td>50</td><td>0.70</td><td>2.0</td><td>0.5</td><td>60</td><td>N/A</td></tr> <tr><td>B270</td><td>70</td><td>2.0</td><td>125</td><td>50</td><td>0.79</td><td>2.0</td><td>0.5</td><td>70</td><td>N/A</td></tr> <tr><td>B280</td><td>80</td><td>2.0</td><td>125</td><td>50</td><td>0.79</td><td>2.0</td><td>0.5</td><td>80</td><td>N/A</td></tr> <tr><td>B290</td><td>90</td><td>2.0</td><td>125</td><td>50</td><td>0.79</td><td>2.0</td><td>0.5</td><td>90</td><td>N/A</td></tr> <tr><td>B2100</td><td>100</td><td>2.0</td><td>125</td><td>50</td><td>0.79</td><td>2.0</td><td>0.5</td><td>100</td><td>N/A</td></tr> </table>										B220	20	2.0	100	50	0.50	2.0	0.5	20	N/A	B230	30	2.0	100	50	0.50	2.0	0.5	30	N/A	B240	40	2.0	100	50	0.50	2.0	0.5	40	N/A	B250	50	2.0	100	50	0.70	2.0	0.5	50	N/A	B260	60	2.0	100	50	0.70	2.0	0.5	60	N/A	B270	70	2.0	125	50	0.79	2.0	0.5	70	N/A	B280	80	2.0	125	50	0.79	2.0	0.5	80	N/A	B290	90	2.0	125	50	0.79	2.0	0.5	90	N/A	B2100	100	2.0	125	50	0.79	2.0	0.5	100	N/A
B220	20	2.0	100	50	0.50	2.0	0.5	20	N/A																																																																																										
B230	30	2.0	100	50	0.50	2.0	0.5	30	N/A																																																																																										
B240	40	2.0	100	50	0.50	2.0	0.5	40	N/A																																																																																										
B250	50	2.0	100	50	0.70	2.0	0.5	50	N/A																																																																																										
B260	60	2.0	100	50	0.70	2.0	0.5	60	N/A																																																																																										
B270	70	2.0	125	50	0.79	2.0	0.5	70	N/A																																																																																										
B280	80	2.0	125	50	0.79	2.0	0.5	80	N/A																																																																																										
B290	90	2.0	125	50	0.79	2.0	0.5	90	N/A																																																																																										
B2100	100	2.0	125	50	0.79	2.0	0.5	100	N/A																																																																																										
<b>3.0A Schottky Rectifiers / POWERMITE® 3</b>																																																																																																			
<table border="1"> <tr><td>SBM340 NEW</td><td>40</td><td>3.0</td><td>100</td><td>100</td><td>0.50</td><td>3.0</td><td>0.5</td><td>40</td><td>Fig. 3</td></tr> <tr><td>MBRM360 NEW</td><td>60</td><td>3.0</td><td>100</td><td>100</td><td>0.63</td><td>3.0</td><td>0.2</td><td>60</td><td>Fig. 3</td></tr> <tr><td>MBRM3100 NEW</td><td>100</td><td>3.0</td><td>90</td><td>100</td><td>0.78</td><td>3.0</td><td>0.2</td><td>100</td><td>Fig. 3</td></tr> </table>										SBM340 NEW	40	3.0	100	100	0.50	3.0	0.5	40	Fig. 3	MBRM360 NEW	60	3.0	100	100	0.63	3.0	0.2	60	Fig. 3	MBRM3100 NEW	100	3.0	90	100	0.78	3.0	0.2	100	Fig. 3																																																												
SBM340 NEW	40	3.0	100	100	0.50	3.0	0.5	40	Fig. 3																																																																																										
MBRM360 NEW	60	3.0	100	100	0.63	3.0	0.2	60	Fig. 3																																																																																										
MBRM3100 NEW	100	3.0	90	100	0.78	3.0	0.2	100	Fig. 3																																																																																										
<b>3.0A Schottky Rectifiers / SMA</b>																																																																																																			
<table border="1"> <tr><td>B340LA NEW</td><td>40</td><td>3.0</td><td>90</td><td>70</td><td>0.45</td><td>3.0</td><td>2.0</td><td>40</td><td>N/A</td></tr> <tr><td>B320A</td><td>20</td><td>3.0</td><td>100</td><td>100</td><td>0.50</td><td>3.0</td><td>0.5</td><td>20</td><td>N/A</td></tr> <tr><td>B330A</td><td>30</td><td>3.0</td><td>100</td><td>100</td><td>0.50</td><td>3.0</td><td>0.5</td><td>30</td><td>N/A</td></tr> <tr><td>B340A</td><td>40</td><td>3.0</td><td>100</td><td>100</td><td>0.50</td><td>3.0</td><td>0.5</td><td>40</td><td>N/A</td></tr> <tr><td>B350A</td><td>50</td><td>3.0</td><td>100</td><td>100</td><td>0.70</td><td>3.0</td><td>0.5</td><td>50</td><td>N/A</td></tr> <tr><td>B360A</td><td>60</td><td>3.0</td><td>100</td><td>100</td><td>0.70</td><td>3.0</td><td>0.5</td><td>60</td><td>N/A</td></tr> </table>										B340LA NEW	40	3.0	90	70	0.45	3.0	2.0	40	N/A	B320A	20	3.0	100	100	0.50	3.0	0.5	20	N/A	B330A	30	3.0	100	100	0.50	3.0	0.5	30	N/A	B340A	40	3.0	100	100	0.50	3.0	0.5	40	N/A	B350A	50	3.0	100	100	0.70	3.0	0.5	50	N/A	B360A	60	3.0	100	100	0.70	3.0	0.5	60	N/A																														
B340LA NEW	40	3.0	90	70	0.45	3.0	2.0	40	N/A																																																																																										
B320A	20	3.0	100	100	0.50	3.0	0.5	20	N/A																																																																																										
B330A	30	3.0	100	100	0.50	3.0	0.5	30	N/A																																																																																										
B340A	40	3.0	100	100	0.50	3.0	0.5	40	N/A																																																																																										
B350A	50	3.0	100	100	0.70	3.0	0.5	50	N/A																																																																																										
B360A	60	3.0	100	100	0.70	3.0	0.5	60	N/A																																																																																										
 <p>Figure 3, POWERMITE® 3 Single</p>																																																																																																			
 <p>Figure 4, POWERMITE® 3 Dual (Common Cathode)</p>																																																																																																			

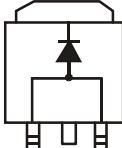
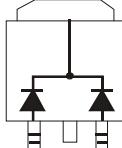
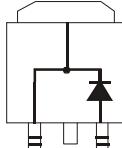
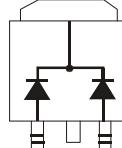
(†) Reference product datasheet for specific test conditions.  
POWERMITE is a registered trademark of MicroSemi Corporation.

Type Number	Peak Repetitive Reverse Voltage	Maximum Average Rectified Current (†)		Peak Forward Surge Current (†)	Forward Voltage Drop		Maximum Reverse Current (†)		Pin-out Config.	
	$V_{RRM}$	$I_o @ T_T$		$I_{FSM}$	$V_F @ I_F$		$I_R @ V_R$			
	V	A	°C	A	V	A	mA	V		
<b>3.0A Schottky Rectifiers / SMB</b>										
B340LB <i>NEW</i>	40	3.0	90	70	0.45	3.0	2.0	40	N/A	
B320B	20	3.0	100	100	0.50	3.0	0.5	20	N/A	
B330B	30	3.0	100	100	0.50	3.0	0.5	30	N/A	
B340B	40	3.0	100	100	0.50	3.0	0.5	40	N/A	
B350B	50	3.0	100	100	0.70	3.0	0.5	50	N/A	
B360B	60	3.0	100	100	0.70	3.0	0.5	60	N/A	
<b>3.0A Schottky Rectifiers / SMC</b>										
B320	20	3.0	100	100	0.50	3.0	0.5	20	N/A	
B330	30	3.0	100	100	0.50	3.0	0.5	30	N/A	
B340	40	3.0	100	100	0.50	3.0	0.5	40	N/A	
B350	50	3.0	100	100	0.70	3.0	0.5	50	N/A	
B360	60	3.0	100	100	0.70	3.0	0.5	60	N/A	
B370	70	3.0	90	100	0.79	3.0	0.5	70	N/A	
B380	80	3.0	90	100	0.79	3.0	0.5	80	N/A	
B390	90	3.0	90	100	0.79	3.0	0.5	90	N/A	
B3100	100	3.0	90	100	0.79	3.0	0.5	100	N/A	
<b>5.0A Schottky Rectifiers / POWERMITE® 3</b> <i>NEW</i>										
SBM540 <i>NEW</i>	40	5.0	90	100	0.54	5.0	0.5	40	Fig. 3	
MBRM560 <i>NEW</i>	60	5.0	90	100	0.66	5.0	0.2	60	Fig. 3	
MBRM5100 <i>NEW</i>	100	5.0	80	100	0.87	5.0	0.2	100	Fig. 3	
<b>5.0A Schottky Rectifiers / SMC</b>										
B520C	20	5.0	90	175	0.55	5.0	0.5	20	N/A	
B530C	30	5.0	90	175	0.55	5.0	0.5	30	N/A	
B540C	40	5.0	90	175	0.55	5.0	0.5	40	N/A	
B550C	50	5.0	90	175	0.70	5.0	0.5	50	N/A	
B560C	60	5.0	90	175	0.70	5.0	0.5	60	N/A	
<b>7.0A Schottky Rectifiers / POWERMITE® 3</b> <i>NEW</i>										
MBRM760 <i>NEW</i>	60	7.0	55	200	0.60	7.0	0.1	60	Fig. 3	
<b>8.0A Schottky Rectifiers / POWERMITE® 3</b> <i>NEW</i>										
SBM835L <i>NEW</i>	35	8.0	88	75	0.51	8.0	1.4	35	Fig. 3	

\*  $T_C$ , Case Temperature

(†) Reference product datasheet for specific test conditions.

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Type Number	Peak Repetitive Reverse Voltage	Maximum Average Rectified Current (†)	Peak Forward Surge Current (†)	Forward Voltage Drop	Maximum Reverse Current (†)	Pin-out Config.			
	$V_{RRM}$	$I_O @ T_T$	$I_{FSM}$	$V_F @ I_F$	$I_R @ V_R$				
	V	A	°C	A	V				
<b>8.0A Schottky Rectifiers / DPAK</b> 									
MBRD835L 	35	8.0	88	75	0.51	8.0	1.4	35	Fig. 5
 <i>Figure 5, DPAK Single</i>									
 <i>Figure 6, DPAK Dual (Common Cathode)</i>									
<b>10A Schottky Rectifiers / POWERMITE® 3</b> 									
SBM1040 	40	10	25	150	0.51	10	0.3	35	Fig. 3
SBM1040CT 	40	10	100*	50	0.57	10	0.15	35	Fig. 4
 <i>Figure 7, D<sup>2</sup>PAK Single</i>									
 <i>Figure 8, D<sup>2</sup>PAK Dual (Common Cathode)</i>									
<b>10A Schottky Rectifiers / D<sup>2</sup>PAK</b>									
SBG1025L SBG1030L	25 30	10 10	120 120	200 200	0.45 0.45	10 10	1.0 1.0	25 30	Fig. 7 Fig. 7
SBG1030CT SBG1035CT SBG1040CT SBG1045CT	30 35 40 45	10 10 10 10	95 95 95 95	125 125 125 125	0.55 0.55 0.55 0.55	5.0 5.0 5.0 5.0	1.0 1.0 1.0 1.0	30 35 40 45	Fig. 8 Fig. 8 Fig. 8 Fig. 8
 <i>Figure 9, D<sup>2</sup>PAK Single</i>									
<b>15A Schottky Rectifiers (Dual) / D<sup>2</sup>PAK</b>									
MBRB1530CT MBRB1535CT MBRB1540CT MBRB1545CT	30 35 40 45	15 15 15 15	105 105 105 105	150 150 150 150	0.70 0.70 0.70 0.70	7.5 7.5 7.5 7.5	0.1 0.1 0.1 0.1	30 35 40 45	Fig. 8 Fig. 8 Fig. 8 Fig. 8

\*  $T_S$ , Temperature at Soldering Point

(†) Reference product datasheet for specific test conditions.

POWERMITE is a registered trademark of MicroSemi Corporation.

Type Number	Peak Repetitive Reverse Voltage	Maximum Average Rectified Current (†)		Peak Forward Surge Current (†)	Forward Voltage Drop		Maximum Reverse Current (†)		Pin-out Config.	
	$V_{RRM}$	$I_o @ T_c$		$I_{FSM}$	$V_F @ I_F$		$I_R @ V_R$			
	V	A	°C	A	V	A	mA	V		
<b>16A Schottky Rectifiers (Dual) / D<sup>2</sup>PAK</b> 										
SBG1630CT NEW	30	16	95	175	0.55	8.0	1.0	30	Fig. 8	
SBG1635CT NEW	35	16	95	175	0.55	8.0	1.0	35	Fig. 8	
SBG1640CT NEW	40	16	95	175	0.55	8.0	1.0	40	Fig. 8	
SBG1645CT NEW	45	16	95	175	0.55	8.0	1.0	45	Fig. 8	
<b>20A Schottky Rectifiers (Dual) / D<sup>2</sup>PAK</b> 										
MRRB2070CT NEW	70	20	110	150	0.85	10	0.1	70	Fig. 8	
MRRB2080CT NEW	80	20	110	150	0.85	10	0.1	80	Fig. 8	
MRRB2090CT NEW	90	20	110	150	0.85	10	0.1	90	Fig. 8	
MRRB20100CT NEW	100	20	110	150	0.85	10	0.1	100	Fig. 8	
SBG2030CT	30	20	105	225	0.55	10	1.0	30	Fig. 8	
SBG2035CT	35	20	105	225	0.55	10	1.0	35	Fig. 8	
SBG2040CT	40	20	105	225	0.55	10	1.0	40	Fig. 8	
SBG2045CT	45	20	105	225	0.55	10	1.0	45	Fig. 8	
<b>30A Schottky Rectifiers (Dual) / D<sup>2</sup>PAK</b> 										
SBG3030CT	30	30	100	250	0.55	15	1.0	30	Fig. 8	
SBG3040CT	40	30	100	250	0.55	15	1.0	40	Fig. 8	
SBG3045CT	45	30	100	250	0.55	15	1.0	45	Fig. 8	
SBG3050CT	50	30	100	250	0.70	15	1.0	50	Fig. 8	
SBG3060CT	60	30	100	250	0.70	15	1.0	60	Fig. 8	

(†) Reference product datasheet for specific test conditions.



# Switching Diodes

Type Number	Peak Repetitive Reverse Voltage	Reverse Recovery Time (t)	Max. Average Rectified Current (†)	Max. Peak Forward Surge Current (†)	Forward Voltage Drop		Max. Reverse Current	Pin-out Config.
	V <sub>RRM</sub>	t <sub>rr</sub>	I <sub>O</sub>	I <sub>FSM</sub>	V <sub>F</sub> @ I <sub>F</sub>		I <sub>R</sub> @ V <sub>R</sub>	
	V	ns/μs	mA	A	V	mA	nA/μA	

## 150mW Switching Diodes / SOT-523

BAS16T <small>NEW</small>	85	4.0ns	155*	4.0	1.0	50	2.0μA	75	Fig. 1
BAS21T <small>NEW</small>	250	50ns	200*	2.5	1.25	200	0.1μA	200	Fig. 1
BAV70T <small>NEW</small>	85	4.0ns	155*	4.0	1.0	50	2.0μA	75	Fig. 2
BAV99T <small>NEW</small>	85	4.0ns	155*	4.0	1.0	50	2.0μA	75	Fig. 3
BAW56T <small>NEW</small>	85	4.0ns	155*	4.0	1.0	50	2.0μA	75	Fig. 4
MMBD4448HT <small>NEW</small>	80	4.0ns	250	4.0	1.0	100	1.0μA	70	Fig. 1
MMBD4448HTA <small>NEW</small>	80	4.0ns	250	4.0	1.0	100	1.0μA	70	Fig. 4
MMBD4448HTC <small>NEW</small>	80	4.0ns	250	4.0	1.0	100	1.0μA	70	Fig. 2
MMBD4448HTS <small>NEW</small>	80	4.0ns	250	4.0	1.0	100	1.0μA	70	Fig. 3

## 150mW Low Leakage Signal Diodes / SOT-523

BAS116T <small>NEW</small>	85	3.0μs	215*	4.0	1.25	150	5.0nA	75	Fig. 1
BAV170T <small>NEW</small>	85	3.0μs	215*	4.0	1.25	150	5.0nA	75	Fig. 2
BAV199T <small>NEW</small>	85	3.0μs	215*	4.0	1.25	150	5.0nA	75	Fig. 3
BAW156T <small>NEW</small>	85	3.0μs	215*	4.0	1.25	150	5.0nA	75	Fig. 4

## 200mW Switching Diodes / SOT-323

BAS16W	75	4.0ns	150	2.0	1.0	50	1.0μA	75	Fig. 1
BAS19W	120	50ns	200	2.5	1.0	100	0.1μA	100	Fig. 1
BAS20W	200	50ns	200	2.5	1.0	100	0.1μA	150	Fig. 1
BAS21W	250	50ns	200	2.5	1.0	100	0.1μA	200	Fig. 1
BAV70W	75	4.0ns	150	2.0	1.0	50	2.5μA	75	Fig. 2
BAV99W	75	4.0ns	150	2.0	1.0	50	2.5μA	75	Fig. 3
BAW56W	75	4.0ns	150	2.0	1.0	50	2.5μA	75	Fig. 4
MMBD4148W	75	4.0ns	150	2.0	1.0	50	1.0μA	75	Fig. 1
MMBD4448W	75	4.0ns	250	4.0	1.0	100	2.5μA	75	Fig. 1

\* Forward Continuous Current, I<sub>FM</sub>

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Reverse Recovery Time (t)	Max. Average Rectified Current (I <sub>O</sub> )	Max. Peak Forward Surge Current (I <sub>FSM</sub> )	Forward Voltage Drop		Max. Reverse Current		Pin-out Config.	
	V <sub>RRM</sub>	t <sub>rr</sub>	I <sub>O</sub>	I <sub>FSM</sub>	V <sub>F</sub> @ I <sub>F</sub>		I <sub>R</sub> @ V <sub>R</sub>			
	V	ns	mA	A	V	mA	nA/μA	V		

## 200mW Switching Diode Arrays / SOT-353 / SOT-363



BAS16TW NEW	75	4.0	150	2.0	1.0	50	1.0μA	75	Fig. 6
BAV70DW	75	4.0	150	2.0	1.0	50	2.5μA	75	Fig. 7
BAV756DW NEW	75	4.0	150	2.0	1.0	50	2.5μA	75	Fig. 8
BAV99BRW	75	4.0	150	2.0	1.0	50	2.5μA	75	Fig. 9
BAV99DW	75	4.0	150	2.0	1.0	50	2.5μA	75	Fig. 10
BAW56DW	75	4.0	150	2.0	1.0	50	2.5μA	75	Fig. 11
MMBD4148TW NEW	75	4.0	150	2.0	1.0	50	1.0μA	75	Fig. 6
MMBD4448HADW	80	4.0	250	4.0	1.0	100	0.1μA	70	Fig. 11
MMBD4448HAQW	80	4.0	250	4.0	1.0	100	0.1μA	70	Fig. 12
MMBD4448HCDW	80	4.0	250	4.0	1.0	100	0.1μA	70	Fig. 7
MMBD4448HCQW	80	4.0	250	4.0	1.0	100	0.1μA	70	Fig. 13
MMBD4448HSDW NEW	80	4.0	250	4.0	1.0	100	0.1μA	70	Fig. 10
MMBD4448HTW	80	4.0	250	4.0	1.0	100	0.1μA	70	Fig. 6

## 200mW Switching Diodes / SOD-323



1N4148WS	75	4.0	150	2.0	1.0	50	1.0μA	75	N/A
1N4448WS	75	4.0	250	4.0	1.0	100	2.5μA	75	N/A
1N4448HWS	80	4.0	250	4.0	1.0	100	0.1μA	80	N/A
BAV16WS	75	4.0	150	2.0	1.0	50	1.0μA	75	N/A
BAV19WS	120	50	200	2.5	1.0	100	0.1μA	100	N/A
BAV20WS	200	50	200	2.5	1.0	100	0.1μA	150	N/A
BAV21WS	250	50	200	2.5	1.0	100	0.1μA	200	N/A

## 250mW Switching Diodes / SOD-123



BAV19W	100	50ns	200	2.5	1.0	100	0.1μA	100	N/A
BAV20W	150	50ns	200	2.5	1.0	100	0.1μA	150	N/A
BAV21W	200	50ns	200	2.5	1.0	100	0.1μA	200	N/A

## 250mW Low Leakage Signal Diode / SOD-123 NEW



BAV116W NEW	130	3.0μs	215**	4.0	1.1	50	5.0nA	75	N/A
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\* Power Dissipation, P = 250mW

\*\* Forward Continuous Current, I<sub>FM</sub>

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Reverse Recovery Time (t <sub>rr</sub> )	Max. Average Rectified Current (I <sub>O</sub> )	Max. Peak Forward Surge Current (I <sub>FSM</sub> )	Forward Voltage Drop (V <sub>F</sub> @ I <sub>F</sub> )	Max. Reverse Current (I <sub>R</sub> @ V <sub>R</sub> )	Pin-out Config.
	V <sub>RRM</sub>	t <sub>rr</sub>	I <sub>O</sub>	I <sub>FSM</sub>	V <sub>F</sub> @ I <sub>F</sub>	I <sub>R</sub> @ V <sub>R</sub>	
	V	ns	mA	A	V	mA	nA/μA

### 250mW Low Leakage Signal Diodes / SOT-23



BAS116 	85	3.0μs	215**	4.0	1.1	50	5.0nA	75	Fig. 1
BAV170 	85	3.0μs	215**	4.0	1.1	50	5.0nA	75	Fig. 2
BAV199 	85	3.0μs	215**	4.0	1.1	50	5.0nA	75	Fig. 3
BAW156 	85	3.0μs	215**	4.0	1.1	50	5.0nA	75	Fig. 4

### 300mW Switching Diodes / SOT-26



MMBD4448HTM 	80	4.0ns	250	4.0	1.0	100	0.1μA	70	Fig. 9
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### 350mW Switching Diodes / SOT-23



BAL99	75	4.0ns	150	2.0	1.0	50	2.5μA	75	Fig. 5
BAS16	75	4.0ns	200	2.0	1.0	50	1.0μA	75	Fig. 1
BAS19*	120	50ns	200	2.5	1.0	100	0.1μA	100	Fig. 1
BAS20*	200	50ns	200	2.5	1.0	100	0.1μA	150	Fig. 1
BAS21*	250	50ns	200	2.5	1.0	100	0.1μA	200	Fig. 1
BAV23A 	250	50ns	200	9.0	1.0	100	0.1μA	200	Fig. 4
BAV23C 	250	50ns	200	9.0	1.0	100	0.1μA	200	Fig. 2
BAV23S	250	50ns	200	9.0	1.0	100	0.1μA	200	Fig. 3
BAV70	75	4.0ns	150	2.0	1.0	50	2.5μA	75	Fig. 2
BAV99	75	4.0ns	150	2.0	1.0	50	2.5μA	75	Fig. 3
BAW56	75	4.0ns	150	2.0	1.0	50	2.5μA	75	Fig. 4
MMBD2004S 	300	50	225*	4.0	1.0	100	0.1μA	240	Fig. 3
MMBD3004S 	350	50	225*	4.0	1.25	200	0.1μA	240	Fig. 3
MMBD4148	75	4.0	200	2.0	1.0	50	1.0μA	75	Fig. 1
MMBD4448	75	4.0	250	4.0	1.0	100	2.5μA	75	Fig. 1
MMBD4448H	80	4.0	250	4.0	1.0	100	0.1μA	70	Fig. 1
MMBD914	75	4.0	200	2.0	1.0	50	1.0μA	75	Fig. 1
MMBD7000	75	4.0	150	2.0	1.25	150	1.0μA	50	Fig. 3



### 400mW Switching Diodes / SOD-123

1N4148W	75	4.0ns	150	2.0	1.0	50	1.0μA	75	N/A
1N4448W	75	4.0ns	250	4.0	1.0	100	2.5μA	75	N/A
BAV16W	75	4.0ns	150	2.0	1.0	50	1.0μA	75	N/A

\* Power Dissipation, P = 250mW

\*\* Forward Continuous Current, I<sub>FM</sub>

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Reverse Recovery Time ( $t_{rr}$ )	Max. Average Rectified Current ( $I_o$ )	Max. Peak Forward Surge Current ( $I_{FSM}$ )	Forward Voltage Drop	Max. Reverse Current	Pin-out Config.
	$V_{RRM}$	$t_{rr}$	$I_o$	$I_{FSM}$	$V_F @ I_F$	$I_R @ V_R$	
	$V$	ns	mA	A	V	mA	$\mu A$

### 500mW Switching Diodes / mini-MELF



LL4154	35	4.0	150	2.0	1.0	30	0.1	25	N/A
LL4151	50	4.0	150	2.0	1.0	50	0.05	50	N/A
LL4150	50	10	200	4.0	1.0	200	0.1	50	N/A
LL4148	75	4.0	150	2.0	1.0	10	5.0	75	N/A
LL4448	75	4.0	150	2.0	1.0	100	5.0	75	N/A
BAV101	120	50	125	1.0	1.0	100	0.1	100	N/A
BAV102	200	50	125	1.0	1.0	100	0.1	150	N/A
BAV103	250	50	125	1.0	1.0	100	0.1	200	N/A

### 500mW Switching Diodes / DO-35



1N4154	25	4.0	150	2.0	1.0	30	0.1	25	N/A
1N4151	50	4.0	150	2.0	1.0	50	0.05	50	N/A
1N4150	50	10	200	4.0	1.0	200	0.1	50	N/A
1N4148	75	4.0	150	2.0	1.0	10	5.0	75	N/A
1N4448	75	4.0	150	2.0	1.0	100	5.0	75	N/A
BAV20	200	50	200	1.0	1.0	100	0.1	150	N/A
BAV21	250	50	200	1.0	1.0	100	0.1	200	N/A

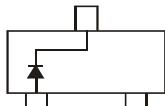


Figure 1, Single

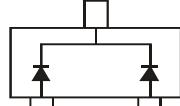


Figure 2, Common Cathode

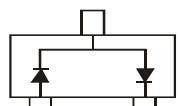


Figure 3, Series

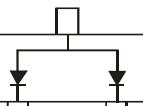


Figure 4, Common Anode

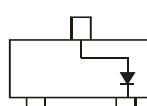


Figure 5, Single (Alt.)

SOT-23, SOT-323 and SOT-523

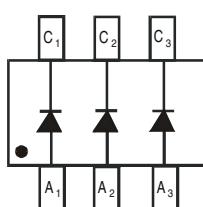


Figure 6

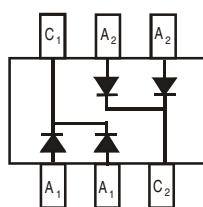


Figure 7

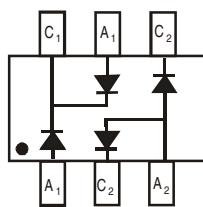


Figure 8

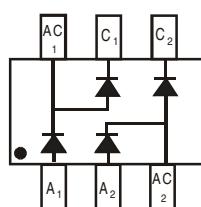


Figure 9

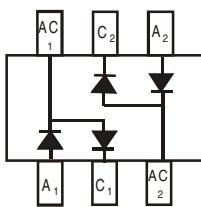


Figure 10

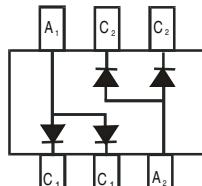


Figure 11

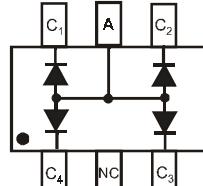


Figure 12

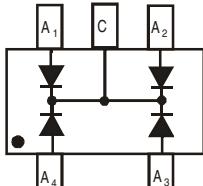


Figure 13

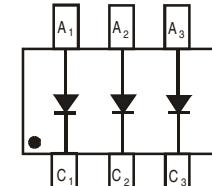


Figure 14

SOT-353, SOT-363, SOT-25 and SOT-26

\* Forward Continuous Current,  $I_{FM}$

# NPN, PNP Transistors

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Type Number	Collector to Emitter Voltage	Collector Current	DC Current Gain		Saturation Voltage, Collector to Emitter		Typical Gain Bandwidth Product	
	$V_{CEO}$	$I_C$	$h_{FE} @ V_{CE} / I_C$		$V_{CE\ SAT} @ I_C / I_B$		$f_T @ V_{CE} / I_C$	
	V	mA	Min-Max	V / mA	Max. V	mA / mA	MHz	V / mA

## NPN Transistors / SOT-523

2DC4617Q NEW	50	150	120-270	6.0/1.0	0.4	50/5.0	180	12/-2
2DC4617R NEW	50	150	180-390	6.0/1.0	0.4	50/5.0	180	12/-2
2DC4617S NEW	50	150	270-560	6.0/1.0	0.4	50/5.0	180	12/-2
BC847AT NEW	45	100	110-220	5.0/2.0	0.6	100/5.0	100min	5.0/10
BC847BT NEW	45	100	200-450	5.0/2.0	0.6	100/5.0	100min	5.0/10
BC847CT NEW	45	100	420-800	5.0/2.0	0.6	100/5.0	100min	5.0/10
MMBT2222AT NEW	40	600	100-300	10/150	1.0	500/50	300min	20/20
MMBT4401T NEW	40	600	100-300	1.0/150	0.75	500/50	250min	10/20

## PNP Transistors / SOT-523

2DA1774Q NEW	-50	-150	120-270	-6.0/-1.0	-0.5	-50/5.0	140	-12/-2
2DA1774R NEW	-50	-150	180-390	-6.0/-1.0	-0.5	-50/-5.0	140	-12/-2
2DA1774S NEW	-50	-150	270-560	-6.0/-1.0	-0.5	-50/-5.0	140	-12/-2
BC857AT NEW	-45	-100	125-250	-5.0/-2.0	-0.65	-10/-0.5	100min	-5.0/-10
BC857BT NEW	-45	-100	220-475	-5.0/-2.0	-0.65	100/-5.0	100min	-5.0/-10
BC857CT NEW	-45	-100	420-800	-5.0/-2.0	-0.65	100/-5.0	100min	-5.0/-10
MMBT2907AT NEW	-60	-600	100-300	-10/-150	-1.6	-500/-50	200min	-20/-50
MMBT3906T NEW	-40	-200	100-300	-1.0/-10	-0.40	-50/-5.0	250min	-20/-10
MMBT4403T NEW	-40	-600	100-300	-2.0/-150	-0.75	-500/-50	200min	-10/-20

## NPN Transistors / SOT-323

BC846AW NEW	65	100	110-220	5.0/2.0	0.6	100/5.0	100min	5/10
BC846BW NEW	65	100	200-450	5.0/2.0	0.6	100/5.0	100min	5/10
BC847AW NEW	45	100	110-220	5.0/2.0	0.6	100/5.0	100min	5/10
BC847BW NEW	45	100	200-450	5.0/2.0	0.6	100/5.0	100min	5/10
BC847CW NEW	45	100	420-800	5.0/2.0	0.6	100/5.0	100min	5/10
BC848AW NEW	30	100	110-220	5.0/2.0	0.6	100/5.0	100min	5/10
BC848BW NEW	30	100	200-450	5.0/2.0	0.6	100/5.0	100min	5/10
BC848CW NEW	30	100	420-800	5.0/2.0	0.6	100/5.0	100min	5/10
MMST2222A	40	600	100-300	10/150	1.0	500/50	300min	20/20
MMST3904	40	200	100-300	1.0/10	0.30	50/5.0	300min	20/10
MMST4124	25	200	120-360	1.0/2	0.30	50/5.0	300min	20/10
MMST4401	40	600	100-300	1.0/150	0.75	500/50	250min	10/20
MMST5551	160	200	80-250	5.0/10	0.20	50/5.0	100min	10/10

Type Number	Collector to Emitter Voltage	Collector Current	DC Current Gain		Saturation Voltage, Collector to Emitter		Typical Gain Bandwidth Product	
	$V_{CEO}$	$I_C$	$h_{FE} @ V_{CE} / I_C$		$V_{CE\ SAT} @ I_C / I_B$		$f_T @ V_{CE} / I_C$	
	V	mA	Min-Max	V / mA	Max. V	mA / mA	MHz	V / mA

### NPN Transistors / SOT-323 (continued)

MMSTA05	60	500	100min	1.0/10	0.25	100/10	100min	2.0/10
MMSTA06	80	500	100min	1.0/10	0.25	100/10	100min	2.0/10
MMSTA42	300	500	25min	10/1.0	0.50	20/2	50min	20/10

### PNP Transistors / SOT-323

BC856AW NEW	-65	-100	125-250	-5.0/-2.0	-0.65	-100/-5.0	100min	-5/-10
BC856BW NEW	-65	-100	220-475	-5.0/-2.0	-0.65	-100/-5.0	100min	-5/-10
BC857AW NEW	-45	-100	125-250	-5.0/-2.0	-0.65	-100/-5.0	100min	-5/-10
BC857BW NEW	-45	-100	220-475	-5.0/-2.0	-0.65	-100/-5.0	100min	-5/-10
BC857CW NEW	-45	-100	420-800	-5.0/-2.0	-0.65	-100/-5.0	100min	-5/-10
BC858AW NEW	-30	-100	125-250	-5.0/-2.0	-0.65	-100/-5.0	100min	-5/-10
BC858BW NEW	-30	-100	220-475	-5.0/-2.0	-0.65	-100/-5.0	100min	-5/-10
BC858CW NEW	-30	-100	420-800	-5.0/-2.0	-0.65	-100/-5.0	100min	-5/-10
MMST2907A	-60	-600	100-300	-10/-150	-1.6	-500/-50	200min	-20/-50
MMST3906	-40	-200	100-300	-1.0/-10	-0.30	-50/-5.0	300min	-20/-10
MMST4126	-25	-200	120-360	-1.0/-2.0	-0.40	-50/-5.0	250min	-20/-10
MMST4403	-40	-600	100-300	-2.0/-150	-0.75	-500/-50	200min	-10/-20
MMST5401	-150	-200	60-240	-5.0/-10	-0.5	-50/-5.0	100min	-10/-10
MMSTA55	-60	-500	100min	-1.0/-10	-0.25	-100/-10	50min	-1.0/-100
MMSTA56	-80	-500	100min	-1.0/-10	-0.25	-100/-10	50min	-1.0/-100
MMSTA92	-300	-500	25min	-10/-30	-0.50	-20/-2.0	50min	-20/-10

### Darlington NPN Transistors / SOT-323

MMST6427	40	500	20,000-200,000	5.0/100	1.2	50/0.5	--	--
MMSTA13	30	300	10,000min	5.0/100	1.5	100/0.10	125min	5.0/10
MMSTA14	30	300	20,000min	5.0/100	1.5	100/0.10	125min	5.0/10

### Darlington PNP Transistors / SOT-323

MMSTA63	-30	-500	10,000min	-5.0/-100	-1.5	-100/-0.10	125min	-5.0/-10
MMSTA64	-30	-500	20,000min	-5.0/-100	-1.5	-100/-0.10	125min	-5.0/-10

### Dual NPN Transistors / SOT-363

BC847BS NEW	45	100	200-450	5.0/2.0	0.40	100/5.0	100min	5.0/10
MMDT2222A	40	600	100-300	10/150	1.0	500/50	300min	20/20
MMDT3904	40	200	100-300	1.0/10	0.30	50/5.0	300min	20/10
MMDT4124	25	200	120-360	1.0/2.0	0.30	50/5.0	300min	20/10
MMDT4401	40	600	100-300	1.0/150	0.75	500/50	250min	10/20

Type Number	Collector to Emitter Voltage	Collector Current	DC Current Gain		Saturation Voltage, Collector to Emitter		Typical Gain Bandwidth Product	
	$V_{CEO}$	$I_C$	$h_{FE} @ V_{CE} / I_C$		$V_{CE\ SAT} @ I_C / I_B$		$f_T @ V_{CE} / I_C$	
	V	mA	Min-Max	V / mA	Max. V	mA / mA	MHz	V / mA

### Dual NPN Transistors / SOT-363 (continued)

MMDT5551	160	200	80-250	5.0/10	0.20	50/5.0	100min	10/10
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### Dual PNP Transistors / SOT-363

MMDT2907A	-60	-600	100-300	-10/-150	-1.6	-500/-50	200min	-20/-50
MMDT3906	-40	-200	100-300	-1.0/-10	-0.40	-50/-5.0	250min	-20/-10
MMDT4126	-25	-200	120-360	-1.0/-2.0	-0.40	-50/-5.0	250min	-20/-10
MMDT4403	-40	-600	100-300	-2.0/-150	-0.75	-500/-50	200min	-10/-20
MMDT5401	-150	-200	60-240	-5.0/-10	-0.5	-50/-5.0	100min	-10/-10

### Complementary NPN/PNP Transistors / SOT-363

BC847PN <sup>NEW</sup> NPN Section PNP Section	45 -45	100 -100	200-450 220-475	5.0/2.0 -5.0/-2.0	0.60 -0.65	100/5.0 -100/-5.0	100min 100min	5.0/10 -5.0/-10
MMDT2227 NPN Section PNP Section	40 -60	600 -600	100-300 100-300	10/150 -10/-150	1.0 -1.6	500/50 -500/-50	300min 200min	20/20 -20/-50
MMDT3946 NPN Section PNP Section	40 -40	200 -200	100-300 100-300	1.0/10 -1.0/-10	0.30 -0.40	50/5.0 -50/-5.0	300min 250min	20/20 -20/-10
MMDT4146 NPN Section PNP Section	40 -40	200 -200	120-360 120-360	1.0/2.0 -1.0/-2.0	0.30 -0.40	50/5.0 -50/-5.0	300min 250min	20/10 -20/-10
MMDT4413 NPN Section PNP Section	40 -40	600 -600	100-300 100-300	1.0/150 -2.0/-150	0.75 -0.75	500/50 -500/-50	250min 200min	10/20 -10/-20
MMDT5451 NPN Section PNP Section	160 -150	200 -200	80-250 60-240	5.0/10 -5.0/-10	0.15 -0.2	10/1.0 -10/-1.0	100min 100min	10/10 -10/-10

Type Number	Collector to Emitter Voltage	Collector Current	DC Current Gain		Saturation Voltage, Collector to Emitter		Typical Gain Bandwidth Product	
	$V_{CEO}$	$I_C$	$h_{FE} @ V_{CE} / I_C$		$V_{CE\ SAT} @ I_C / I_B$		$f_T @ V_{CE} / I_C$	
	V	mA	Min-Max	V / mA	Max. V	mA / mA	MHz	V / mA

### NPN Transistors / SOT-23

<b>BC817-16 NEW</b>	45	800	100-250	1.0/100	0.7	500/50	100min	5/10
<b>BC817-25 NEW</b>	45	800	160-400	1.0/100	0.7	500/50	100min	5/10
<b>BC817-40 NEW</b>	45	800	250-600	1.0/100	0.7	500/50	100min	5/10
<b>BC846A NEW</b>	65	100	110-220	5.0/2.0	0.6	100/5.0	100min	5/10
<b>BC846B NEW</b>	65	100	200-450	5.0/2.0	0.6	100/5.0	100min	5/10
<b>BC847A NEW</b>	45	100	110-220	5.0/2.0	0.6	100/5.0	100min	5/10
<b>BC847B NEW</b>	45	100	200-450	5.0/2.0	0.6	100/5.0	100min	5/10
<b>BC847C NEW</b>	45	100	420-800	5.0/2.0	0.6	100/5.0	100min	5/10
<b>BC848A NEW</b>	30	100	110-220	5.0/2.0	0.6	100/5.0	100min	5/10
<b>BC848B NEW</b>	30	100	200-450	5.0/2.0	0.6	100/5.0	100min	5/10
<b>BC848C NEW</b>	30	100	420-800	5.0/2.0	0.6	100/5.0	100min	5/10
<b>MMBT123S NEW</b>	18	1000	150-800	1/100	0.5	300/30	100min	10/50
<b>MMBT2222A</b>	40	600	100-300	10/150	1.0	500/50	300min	20/20
<b>MMBT3904</b>	40	200	100-300	1.0/10	0.30	50/5.0	300min	20/10
<b>MMBT4124</b>	25	200	120-360	1.0/2.0	0.30	50/5.0	300min	20/10
<b>MMBT4401</b>	40	600	100-300	1.0/150	0.75	500/50	250min	10/20
<b>MMBT5551</b>	160	200	80-250	5.0/10	0.20	50/5.0	100-300min	10/10
<b>MMBTA05</b>	60	500	100min	1.0/100	0.25	100/10	100min	2/10
<b>MMBTA06</b>	80	500	100min	1.0/100	0.25	100/10	100min	2/10
<b>MMBTA42</b>	300	500	40min	10/10	0.5	20/2.0	50min	20/10
<b>MMBTH10</b>	25	50	60min	10/4	0.5	4/0.4	650min	10/4
<b>MMBTH24</b>	40	50	30min	10/8	0.5	4/0.4	400min	10/8

### PNP Transistors / SOT-23

<b>BC807-16 NEW</b>	-45	-500	100-250	-1.0/100	-0.7	-500/-50	100min	-5/-10
<b>BC807-25 NEW</b>	-45	-500	160-400	-1.0/100	-0.7	-500/-50	100min	-5/-10
<b>BC807-40 NEW</b>	-45	-500	250-600	-1.0/100	-0.7	-500/-50	100min	-5/-10
<b>BC856A NEW</b>	-65	-100	125-250	-5.0/-2.0	-0.65	-100/-5.0	100min	-5/-10
<b>BC856B NEW</b>	-65	-100	220-475	-5.0/-2.0	-0.65	-100/-5.0	100min	-5/-10
<b>BC857A NEW</b>	-45	-100	125-250	-5.0/-2.0	-0.65	-100/-5.0	100min	-5/-10
<b>BC857B NEW</b>	-45	-100	220-475	-5.0/-2.0	-0.65	-100/-5.0	100min	-5/-10
<b>BC857C NEW</b>	-45	-100	420-800	-5.0/-2.0	-0.65	-100/-5.0	100min	-5/-10
<b>BC858A NEW</b>	-30	-100	125-250	-5.0/-2.0	-0.65	-100/-5.0	100min	-5/-10
<b>BC858B NEW</b>	-30	-100	220-475	-5.0/-2.0	-0.65	-100/-5.0	100min	-5/-10
<b>BC858C NEW</b>	-30	-100	420-800	-5.0/-2.0	-0.65	-100/-5.0	100min	-5/-10
<b>MMBT2907A</b>	-60	-600	100-300	-10/-150	-1.6	-500/-50	200min	-20/-50
<b>MMBT3906</b>	-40	-200	100-300	-1.0/-10	-0.40	-50/-5.0	250min	-20/-10
<b>MMBT4126</b>	-25	-200	120-360	-1.0/-2.0	-0.40	-50/-5.0	250min	-20/-10
<b>MMBT4403</b>	-40	-600	100-300	-2.0/-150	-0.75	-500/-50	200min	-10/-20
<b>MMBT5401</b>	-150	-200	60-240	-5.0/-10	-0.50	-50/-5.0	100-300	-10/-10

Type Number	Collector to Emitter Voltage	Collector Current	DC Current Gain		Saturation Voltage, Collector to Emitter		Typical Gain Bandwidth Product	
	$V_{CEO}$	$I_C$	$h_{FE} @ V_{CE} / I_C$		$V_{CE\ SAT} @ I_C / I_B$		$f_T @ V_{CE} / I_C$	
	V	mA	Min-Max	V / mA	Max. V	mA / mA	MHz	V / mA

### PNP Transistors / SOT-23 (Continued)

MMBTA55	-60	-500	100min	-1.0/-10	-0.25	-100/-10	50min	-1.0/100
MMBTA56	-80	-500	100min	-1.0/-10	-0.25	-100/-10	50min	-1.0/100
MMBTA92	-300	-200	40min	-10/-10	-0.50	-20/-2.0	50min	-20/-10

### Darlington NPN Transistors / SOT-23

MMBT6427	40	500	20,000-200,000	5.0/100	1.5	500/0.5	—	—
MMBTA13	30	300	10,000	5.0/100	1.5	100/0.1	125min	5/10
MMBTA14	30	300	20,000	5.0/100	1.5	100/0.1	125min	5/10

### Darlington PNP Transistors / SOT-23

MMBTA63	-30	-500	10,000min	-5.0/-100	-1.5	-100/-0.1	125min	-5.0/-10
MMBTA64	-30	-500	20,000min	-5.0/-100	-1.5	-100/-0.1	125min	-5.0/-10

### Dual NPN Transistor / SOT-26

NEW

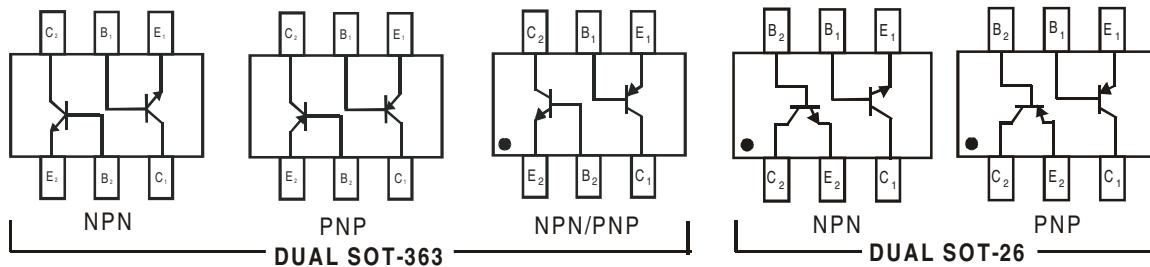
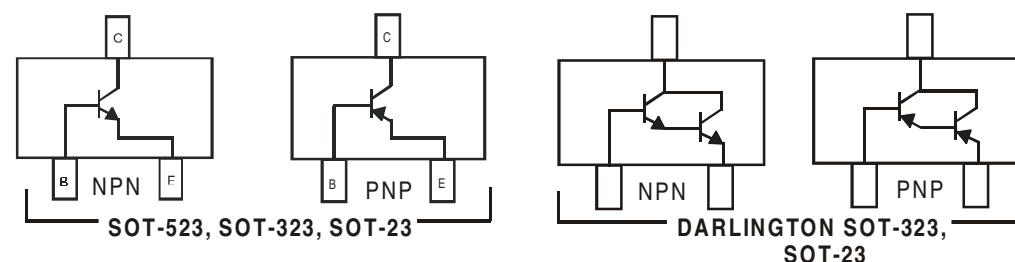
IMX8 NEW	120	50	180-820	6.0/2.0	0.50	10/1.0	140typ	12/2.0
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### Dual PNP Transistor / SOT-26

NEW

IMT4 NEW	-120	-50	180-220	-6.0/-2.0	-0.5	-10/-1.0	140typ	-12/-2.0
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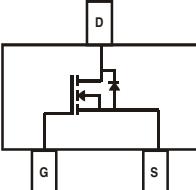
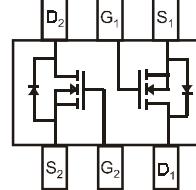
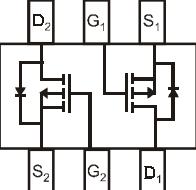
### TRANSISTOR DIAGRAMS



## NEW Matched Transistor Arrays

Type Number	Collector to Emitter Voltage	Collector Current	DC Current Gain		Saturation Voltage, Collector to Emitter		Typical Gain Bandwidth Product	
	$V_{CEO}$	$I_C$	$h_{FE} @ V_{CE} / I_C$		$V_{CE\ SAT} @ I_C / I_B$		$f_T @ V_{CE} / I_C$	
	$V$	mA	Min-Max	V / mA	Max. V	mA / mA	MHz	V / mA
<b>Dual Matched NPN Transistor Array / SOT-363</b> NEW								
DMMT3904W*	NEW 40	200	100-300*	1.0/10	0.30	50/5.0	300min	20/10
<b>Dual Matched PNP Transistor Array / SOT-363</b> NEW								
DMMT3906W*	NEW -40	-200	100-300*	-1.0/-10	-0.30	-50/-5.0	300min	-20/-10
<b>Dual Matched NPN Transistor Array / SOT-143</b> NEW								
DMMT847B**	NEW 45	100	200-450**	5.0/2.0	0.60	100/5.0	300typ	5.0/10
*Built with adjacent die from a single wafer: DC Current Gain, $h_{FE}$ , is matched to a 2% maximum tolerance.								
** Matched Pair Device: See datasheet for matching specifications.								
<b>Dual Matched PNP Transistor Array / SOT-143</b> NEW								
DMMT857B**	NEW -45	-100	220-475**	-5.0/-2.0	-0.65	-100/-5.0	200typ	5.0/10
** Matched Pair Device: See datasheet for matching specifications.								
<b>MATCHED TRANSISTOR ARRAYS</b>								
 NPN      PNP				 NPN      PNP				
SOT-363				SOT-143				

# MOSFETS

Type Number	$V_{DSS}$	$V_{GSS}$	$I_{DMAX}$	$r_{DS(on)}$ max	$V_{GS(th)}$	$I_{DSS}$	$C_{ISS}$ max
<b>N-Channel MOSFET / SOT-523</b> 							
2N7002T 	60V	$\pm 20$ V	115mA	7.5Ohm	2.0Vmax	1.0 $\mu$ A	50pF
<b>N-Channel MOSFET / SOT-323</b> 							
2N7002W	60V	$\pm 20$ V	115mA	7.5Ohm	2.0Vmax	1.0 $\mu$ A	50pF
BSS138W 	50V	$\pm 20$ V	200mA	3.5Ohm	1.5Vmax	0.5 $\mu$ A	50pF
<b>P-Channel MOSFET / SOT-323</b> 							
BSS84W 	-50V	$\pm 20$ V	-130mA	10Ohm	-2.0Vmax	-15 $\mu$ A	45pF
<b>N-Channel MOSFET / SOT-23</b> 							
2N7002	60V	$\pm 20$ V	115mA	7.5Ohm	2.5Vmax	1.0 $\mu$ A	50pF
MMBF170	60V	$\pm 20$ V	500mA	5.0Ohm	3.0Vmax	1.0 $\mu$ A	40pF
BS870	60V	$\pm 20$ V	250mA	5.0Ohm	3.0Vmax	0.5 $\mu$ A	50pF
BSS138	50V	$\pm 20$ V	200mA	3.5Ohm	1.5Vmax	0.5 $\mu$ A	50pF
<b>P-Channel MOSFET / SOT-23</b> 							
BSS84	-50V	$\pm 20$ V	-130mA	1Ohm	-2.0Vmax	-15 $\mu$ A	45pF
 <p>Single N-Channel MOSFET Pin Configuration SOT-23, SOT-323, SOT-523, SC-59</p>  <p>Dual N-Channel MOSFET Pin Configuration SOT-363</p>  <p>Dual P-Channel MOSFET Pin Configuration SOT-363</p>							
<b>N-Channel MOSFET / SC-59</b> 							
DMN100	30V	$\pm 20$ V	+/-1.1A	0.17Ohm	3.0Vmax	1.0 $\mu$ A	150pF (typ)
<b>Dual N-Channel MOSFET / SOT-363</b> 							
2N7002DW	60V	$\pm 20$ V	115mA	7.5Ohm	2.0Vmax	1.0 $\mu$ A	50pF
BSS138DW 	50V	$\pm 20$ V	200mA	3.5Ohm	1.5Vmax	0.5 $\mu$ A	50pF
<b>Dual P-Channel MOSFET / SOT-363</b> 							
BSS84DW 	-50V	$\pm 20$ V	-130mA	10Ohm	-2.0Vmax	-15 $\mu$ A	45pF



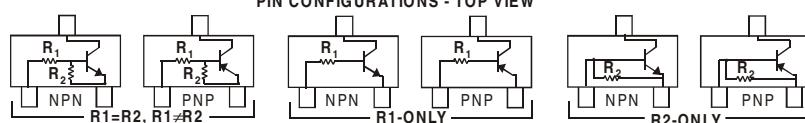
**NEW**

# NPN, PNP Prebiased Transistors

Collector to Emitter Voltage	Maximum Output Current	Saturation Voltage, Collector to Emitter	DC Current Transfer Ratio, Transistor	Gain Bandwidth Product-Transistor	Maximum Power Dissipation
$V_{CE}, V_{CEO}$	$I_O \text{ (MAX)}, I_C \text{ (MAX)}$	$V_{CE \text{ SAT}}, V_O \text{ (ON)}$	$h_{FE}$	$f_T$	$P_d$
50V	100mA	0.1V Typ., 0.3V Max.	100 Min., 250 Typ., 600 Max.	250 MHz Typ.	200mW (SOT-323, SOT-23) 150mW (SOT-523)

Series	Type Number		Bias Resistors		Package			Marking Code
	NPN	PNP	R1 ( $\text{k}\Omega$ )	R2 ( $\text{k}\Omega$ )	SOT-523	SOT-323	SOT-23	
					150mW	200mW	200mW	
R1 = R2	DDTC123E() NEW	DDTA123E() NEW	2.2	2.2	(E)	(UA)	(CA)	N04/P04
	DDTC143E() NEW	DDTA143E() NEW	4.7	4.7	(E)	(UA)	(CA)	N08/P08
	DDTC114E() NEW	DDTA114E() NEW	10	10	(E)	(UA)	(CA)	N13/P13
	DDTC124E() NEW	DDTA124E() NEW	22	22	(E)	(UA)	(CA)	N17/P17
	DDTC144E() NEW	DDTA144E() NEW	47	47	(E)	(UA)	(CA)	N20/P20
	DDTC115E() NEW	DDTA115E() NEW	100	100	(E)	(UA)	(CA)	N24/P24
R1 ≠ R2	DDTC113Z() NEW	DDTA113Z() NEW	1	10	(E)	(UA)	(CA)	N02/P02
	DDTC123Y() NEW	DDTA123Y() NEW	2.2	10	(E)	(UA)	(CA)	N05/P05
	DDTC123J() NEW	DDTA123J() NEW	2.2	47	(E)	(UA)	(CA)	N06/P06
	DDTC143X() NEW	DDTA143X() NEW	4.7	10	(E)	(UA)	(CA)	N09/P09
	DDTC143F() NEW	DDTA143F() NEW	4.7	22	(E)	(UA)	(CA)	N10/P10
	DDTC143Z() NEW	DDTA143Z() NEW	4.7	47	(E)	(UA)	(CA)	N11/P11
	DDTC114Y() NEW	DDTA114Y() NEW	10	47	(E)	(UA)	(CA)	N14/P14
	DDTC114W() NEW	DDTA114W() NEW	10	47	(E)	(UA)	(CA)	N15/P15
	DDTC124X() NEW	DDTA124X() NEW	22	47	(E)	(UA)	(CA)	N18/P18
	DDTC144V() NEW	DDTA144V() NEW	47	10	(E)	(UA)	(CA)	N21/P21
	DDTC144W() NEW	DDTA144W() NEW	47	22	(E)	(UA)	(CA)	N22/P22
R1-Only	DDTC113T() NEW	DDTA113T() NEW	1	-	(E)	(UA)	(CA)	N01/P01
	DDTC123T() NEW	DDTA123T() NEW	2.2	-	(E)	(UA)	(CA)	N03/P03
	DDTC143T() NEW	DDTA143T() NEW	4.7	-	(E)	(UA)	(CA)	N07/P07
	DDTC114T() NEW	DDTA114T() NEW	10	-	(E)	(UA)	(CA)	N12/P12
	DDTC124T() NEW	DDTA124T() NEW	22	-	(E)	(UA)	(CA)	N16/P16
	DDTC144T() NEW	DDTA144T() NEW	47	-	(E)	(UA)	(CA)	N19/P19
	DDTC115T() NEW	DDTA115T() NEW	100	-	(E)	(UA)	(CA)	N23/P23
	DDTC125T() NEW	DDTA125T() NEW	200	-	(E)	(UA)	(CA)	N25/P25
R2-Only	DDTC114G() NEW	DDTA114G() NEW	-	10K	(E)	(UA)	(CA)	N26/P26
	DDTC124G() NEW	DDTA124G() NEW	-	22K	(E)	(UA)	(CA)	N27/P27
	DDTC144G() NEW	DDTA144G() NEW	-	47K	(E)	(UA)	(CA)	N28/P28
	DDTC115G() NEW	DDTA115G() NEW	-	100K	(E)	(UA)	(CA)	N29/P29

PIN CONFIGURATIONS - TOP VIEW



# NEW NPN, PNP Prebiased Transistors

Collector to Emitter Voltage	Maximum Output Current	Saturation Voltage, Collector to Emitter	DC Current Transfer Ratio, Transistor	Gain Bandwidth Product-Transistor	Maximum Power Dissipation
$V_{CE}$ , $V_{CEO}$	$I_O$ (MAX), $I_C$ (MAX)	$V_{CE\ SAT}$ , $V_O$ (ON)	$h_{FE}$	$f_T$	$P_d$
50V	500mA	0.1V Typ., 0.3V Max.	100 Min., 250 Typ., 600 Max.	250 MHz Typ.	200mW (SOT-323, SOT-23)

Series	Type Number		Bias Resistors		Package		Marking Code
	NPN	PNP	R1 (KΩ)	R2 (KΩ)	SOT-323	SOT-23	
					200mW	200mW	
$R_1 = R_2$	DDTD113E() NEW	DDTB113E() NEW	1	1	(U)	(C)	N60/P60
	DDTD123E() NEW	DDTB123E() NEW	2.2	2.2	(U)	(C)	N61/P61
	DDTD143E() NEW	DDTB143E() NEW	4.7	4.7	(U)	(C)	N62/P62
	DDTD114E() NEW	DDTB114E() NEW	10	10	(U)	(C)	N63/P63
$R_1 \neq R_2$	DDTD122J() NEW	DDTB122J() NEW	.22	4.7	(U)	(C)	N64/P64
	DDTD113Z() NEW	DDTB113Z() NEW	1	10	(U)	(C)	N65/P65
	DDTD123Y() NEW	DDTB123Y() NEW	2.2	10	(U)	(C)	N66/P66
	DDTD133H() NEW	DDTB133H() NEW	3.3	10	(U)	(C)	N67/P67
	DDTD112C() NEW	DDTB112C() NEW	0.1	10	(U)	(C)	N68/P68
R1-Only*	DDTD123T() NEW	DDTB123T() NEW	2.2	-	(U)	(C)	N69/P69
	DDTD143T() NEW	DDTB143T() NEW	4.7	-	(U)	(C)	N70/P70
	DDTD114T() NEW	DDTB114T() NEW	10	-	(U)	(C)	N71/P71
R2-Only*	DDTD114G() NEW	DDTB114G() NEW	-	10	(U)	(C)	N72/P72

PIN CONFIGURATIONS - TOP VIEW

The diagram shows six pin configurations for NPN and PNP transistors. 
 - Top row: NPN (left) and PNP (right). Both show two resistors labeled  $R_1$  and  $R_2$  connected between the collector and base pins. 
 - Middle row: NPN (left) and PNP (right). Both show one resistor labeled  $R_1$  connected between the collector and base pins. 
 - Bottom row: NPN (left) and PNP (right). Both show one resistor labeled  $R_1$  connected between the collector and base pins, with the collector terminal also connected to ground.

\* Under Development



## NPN, PNP Prebiased Transistors

Collector to Emitter Voltage	Maximum Output Current	Saturation Voltage, Collector to Emitter	DC Current Transfer Ratio, Transistor	Gain Bandwidth Product-Transistor	Maximum Power Dissipation
$V_{CE}, V_{CEO}$	$I_O$ (MAX), $I_C$ (MAX)	$V_{CE\ SAT}, V_O$	$h_{FE}$	$f_T$	$P_d$
50V	100mA	0.1V Typ., 0.3V Max.	100 Min., 250 Typ., 600 Max.	250 MHz Typ.	200mW (SOT-363)
Series	Type Number	Bias Resistors		Package	Marking Code
		R1 (KΩ)	R2 (KΩ)	SOT-363	NPN/PNP
				200mW	
NPN (100mA)	DDC124E() NEW	22	22	(U)	N17
	DDC144E() NEW	47	47	(U)	N20
	DDC114Y() NEW	10	47	(U)	N14
	DDC123J() NEW	2.2	47	(U)	N06
	DDC114E() NEW	10	10	(U)	N13
	DDC143T() NEW	4.7	-	(U)	N07
	DDC114T() NEW	10	-	(U)	N12
PNP (100mA)	DDA124E() NEW	22	22	(U)	P17
	DDA144E() NEW	47	47	(U)	P20
	DDA114Y() NEW	10	47	(U)	P14
	DDA123J() NEW	2.2	47	(U)	P06
	DDA114E() NEW	10	10	(U)	P13
	DDA143T() NEW	4.7	-	(U)	P07
	DDA114T() NEW	10	-	(U)	P12
Complementary NPN/PNP (100mA)	DCX124E() NEW	22	22	(U)	C17
	DCX144E() NEW	47	47	(U)	C20
	DCX114Y() NEW	10	47	(U)	C14
	DCX123J() NEW	2.2	47	(U)	C06
	DCX114E() NEW	10	10	(U)	C13
	DCX143T() NEW	4.7	-	(U)	C07
	DCX114T() NEW	10	-	(U)	C12
PIN CONFIGURATIONS - TOP VIEW					
 NPN		 PNP		 COMPLEMENTARY NPN/PNP	
<b>R1/R2</b>			<b>R1-ONLY</b>		

Type Number $V_{CE}, V_{CEO}$	Bias Resistors				Marking Code	SC-74R 
	NPN R1	NPN R2	PNP R1	PNP R2		
DIMD10A* 100mA NPN/500 mA PNP	10K	-	100Ω	10K	C73	
DIMD16A* 100mA NPN/500 mA PNP	100K	-	2.2K	22K	C74	

\* Under Development



**NEW**

# Complex Arrays

PNP Transistor and N-Channel MOSFET / SOT-363 <b>NEW</b>							
Type Number	Element Designator	Element Type	Electrical Specifications				
			Collector to Emitter Voltage	DC Current Gain		Saturation Voltage, Collector to Emitter	
CTA2P1N  <b>NEW</b>	Q1	PNP Transistor	$V_{CEO}$	$h_{FE} @ V_{CE} / I_C$		$V_{CE\ SAT} @ I_C / I_B$	$f_T @ V_{CE} / I_C$
			V	Min-Max	V / mA	Max. V	mA / mA
			-40	100-300	-2.0/-150	0.75	-500/-50
CTA2P1N  <b>NEW</b>	Q2	N-Channel MOSFET	Drain-Source Breakdown Voltage	Gate-Source Voltage	Drain Current	Static Drain-Source On-Resistance	Gate Threshold Voltage
			$V_{DSS}$	$V_{GSS}$	$I_{DMAX}$	$r_{DS(on)\ max}$	$V_{GS(th)}$
			60	$\pm 20$ V	115	7.5Ohm	2.5Vmax
						1.0 $\mu$ A	50pF

NPN Transistor and P-Channel MOSFET / SOT-363 <b>NEW</b>							
Type Number	Element Designator	Element Type	Electrical Specifications				
			Collector to Emitter Voltage	DC Current Gain		Saturation Voltage, Collector to Emitter	
CTA2N1P  <b>NEW</b>	Q1	NPN Transistor	$V_{CEO}$	$h_{FE} @ V_{CE} / I_C$		$V_{CE\ SAT} @ I_C / I_B$	$f_T @ V_{CE} / I_C$
			V	Min-Max	V / mA	Max. V	mA / mA
			40	100-300	1.0/150	0.75	500/50
CTA2N1P  <b>NEW</b>	Q2	P-Channel MOSFET	Drain-Source Breakdown Voltage	Gate-Source Voltage	Drain Current	Static Drain-Source On-Resistance	Gate Threshold Voltage
			$V_{DSS}$	$V_{GSS}$	$I_{DMAX}$	$r_{DS(on)\ max}$	$V_{GS(th)}$
			-50V	$\pm 20$ V	-130	1Ohm	-2.0Vmax
						-15 $\mu$ A	45pF

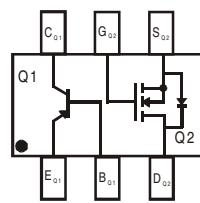


Figure 1

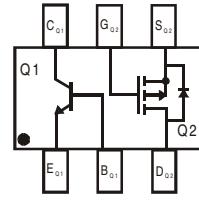


Figure 2

Type Number	Collector to Emitter Voltage	Collector Current	DC Current Gain		Saturation Voltage, Collector to Emitter		Gain Bandwidth Product	
	$V_{CEO}$	$I_C$	$h_{FE} @ V_{CEO} / I_C$		$V_{CE\ SAT} @ I_C / I_B$		$f_T @ V_{CE} / I_C$	
	V	mA	Min-Max	V / mA	Max. V	mA / mA	MHz	V / mA
<b>Dual Matched NPN Transistor Array / SOT-363</b> 								
DMMT3904W* (Figure 3) 	40	200	100-300*	1.0/10	0.30	50/5.0	300min	20/10
<b>Dual Matched PNP Transistor Array / SOT-363</b> 								
DMMT3906W* (Figure 4) 	-40	-200	100-300*	-1.0/-10	-0.30	-50/-5.0	300min	-20/-10
<b>Dual Matched NPN Transistor Array / SOT-143</b> 								
DMMT847B** (Figure 5) 	45	100	200-450**	5.0/2.0	0.60	100/5.0	300typ	5.0/10
<b>Dual Matched PNP Transistor Array / SOT-143</b> 								
DMMT857B** (Figure 6) 	-45	-100	220-475**	-5.0/-2.0	-0.65	-100/-5.0	200typ	-5.0/-10

\* Built with adjacent die from a single wafer: DC Current Gain,  $h_{FE}$ , is matched to a 2% maximum tolerance.

\*\* Matched Pair Device: See datasheet for matching specifications.

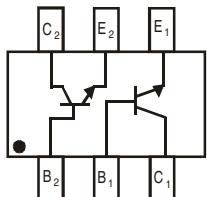


Figure 3

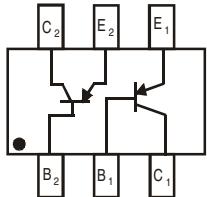


Figure 4

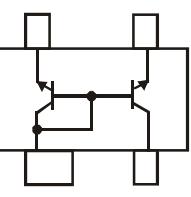


Figure 5

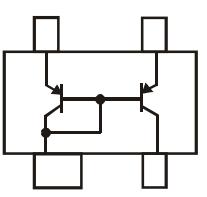


Figure 6

Type Number	Peak Repetitive Reverse Voltage	Forward Continuous Current	Forward Voltage Drop		Maximum Reverse Current		Maximum Capacitance
	$V_{RRM}$	$I_{FM}$	$V_F @ I_F$		$I_R @ V_R$		$C_{TOT}$
	V	mA	V	mA	$\mu A$	V	pF (typ)
<b>Quad Schottky Bus Terminator / Dataline Protection Array / SOT-363</b> 							
QSBT40 (Figure 7)	30	200	1.00	100	2	25	10

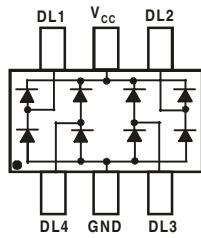


Figure 7

Type Number	$V_{RWM}$	$V_{BR} @ I_T$			Max. Reverse Leakage @ $V_{RWM}$	Max. Clamping Voltage @ $I_{PP} = 1A$ (Note 3)	Max. Peak Pulse Current (Note 1)	Typical Junction Capacitance (Note 2)
		Min.	Max.	$I_T$				
		V	V	mA				
DLP05LC <sup>NEW</sup> (Figure 8)	5	6.0	—	1.0	20	11.0	17	1.6
1. $t_p = 8x20\mu s$ . 2. $V_R = 0V$ , $f = 1MHz$ . 3. Clamping voltage value is based on an $8x20 \mu s$ peak pulse current ( $I_{PP}$ ) waveform.								

Type Number	$V_{RWM}$	$V_{BR} @ I_T$			Max. Peak Forward Voltage @ $I_{PP} = 1A$ (Note 1)	Max. Reverse Leakage @ $V_{RWM}$	Max. Clamping Voltage @ $I_{PP} = 1A$ (Note 2)	Max. Peak Pulse Current (Note 1)
		Min.	Max.	$I_T$				
		V	V	mA				
DLPT05 <sup>NEW</sup> (Figure 9)	5	6.0	—	1.0	2.1	20	9.8	17
1. $t_p = 8x20\mu s$ . 2. Clamping voltage value is based on an $8x20 \mu s$ peak pulse current ( $I_{PP}$ ) waveform.								

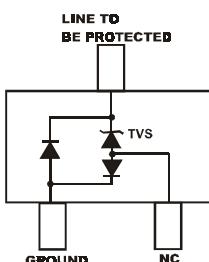


Figure 8

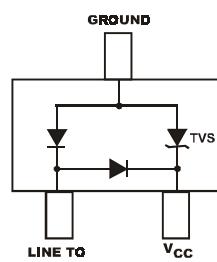
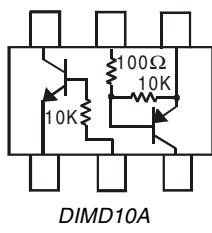


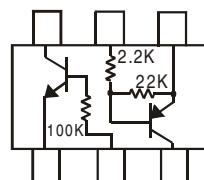
Figure 9

### Complementary (NPN/PNP) Pre-Biased Transistor Arrays for Power Management

DIMD10A\* - 500mA PNP, 100 mA NPN, SOT-26 (Figure Y)  
 DIMD16A\* - 500mA PNP, 100 mA NPN, SOT-26 (Figure Z)



DIMD10A  
Figure (Y)



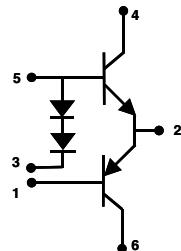
DIMD16A  
Figure (Z)

\* Under Development

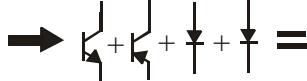
See Prebiased Transistor Arrays, Chapter 6.

## ***Customer Specified Custom Arrays***

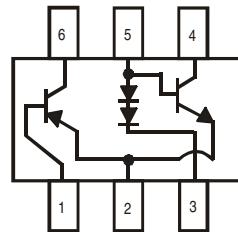
With Applications Engineering located in Westlake Village, California, and Design Engineering, Prototyping and High Volume Manufacturing in Taiwan and China, Diodes, Inc. is uniquely qualified to provide application-specific solutions with rapid sampling for high-volume requirements. Arrays can incorporate up to eight diodes (Switching, Schottky and Zener) or combinations of transistors and diodes, including 100mA & 500 mA prebiased transistors, with up to two bias resistors each, up to three transistors and four diodes, depending upon interconnection configuration, in a single six-pin SOT-363 package or SOT-26 package.



**Customer Specified Circuit  
Schematic**

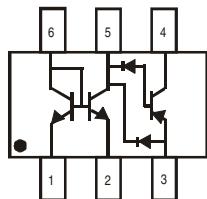


**Diodes Inc. Standard Die Types**

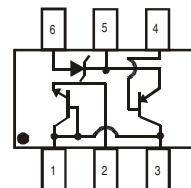


**Customer Specified Custom Array**

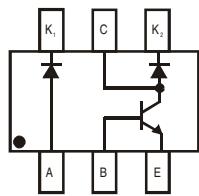
The following are representative samples of several custom designs currently in process and are provided to illustrate capability. Please also refer to the standard array designs in the preceding pages, as those can also be easily "Customized".



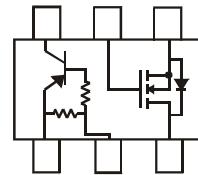
**Triple Transistor, Dual Diode in SOT-26**



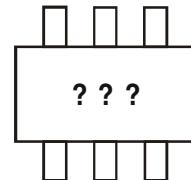
**Complementary Transistors With Zener in SOT-26**



**Transistor With Two Schottky Diodes in SOT-363**



**Prebiased Transistor and MOSFET**

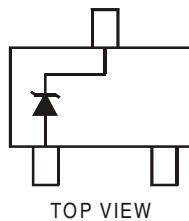


**Per Customer Requirement**

# Zener Diodes

Type Number	Zener Voltage Range <sup>1</sup>		Max. Zener Impedance				Maximum Reverse Current		Temperature Coefficient of Zener Voltage @ $I_{ZT}$ mV/°C	
	$V_Z$ @ $I_{ZT}$		$Z_{ZT}$ @ $I_{ZT}$		$Z_{ZK}$ @ $I_{ZK}$		$I_R$	$V_R$		
	Min V	Max V	$\Omega$	mA	$\Omega$	mA	uA	V	Min	Max
<b>150mW Zener Diodes / SOT-523</b> <span style="background-color: yellow; padding: 2px;">NEW</span>										
BZX84C2V4T NEW	2.2	2.6	100	5.0	600	1.0	50	1.0	-3.5	0
BZX84C2V7T NEW	2.5	2.9	100	5.0	600	1.0	20	1.0	-3.5	0
BZX84C3V0T NEW	2.8	3.2	95	5.0	600	1.0	10	1.0	-3.5	0
BZX84C3V3T NEW	3.1	3.5	95	5.0	600	1.0	5	1.0	-3.5	0
BZX84C3V6T NEW	3.4	3.8	90	5.0	600	1.0	5	1.0	-3.5	0
BZX84C3V9T NEW	3.7	4.1	90	5.0	600	1.0	3	1.0	-3.5	0
BZX84C4V3T NEW	4.0	4.6	90	5.0	600	1.0	3	1.0	-3.5	0
BZX84C4V7T NEW	4.4	5.0	80	5.0	500	1.0	3	2.0	-3.5	0.2
BZX84C5V1T NEW	4.8	5.4	60	5.0	480	1.0	2	2.0	-2.7	1.2
BZX84C5V6T NEW	5.2	6.0	40	5.0	400	1.0	1	2.0	-2.0	2.5
BZX84C6V2T NEW	5.8	6.6	10	5.0	150	1.0	3	4.0	0.4	3.7
BZX84C6V8T NEW	6.4	7.2	15	5.0	80	1.0	2	4.0	1.2	4.5
BZX84C7V5T NEW	7.0	7.9	15	5.0	80	1.0	1	5.0	2.5	5.3
BZX84C8V2T NEW	7.7	8.7	15	5.0	80	1.0	0.7	5.0	3.2	6.2
BZX84C9V1T NEW	8.5	9.6	15	5.0	100	1.0	0.5	6.0	3.8	7.0
BZX84C10T NEW	9.4	10.6	20	5.0	150	1.0	0.2	7.0	4.5	8.0
BZX84C11T NEW	10.4	11.6	20	5.0	150	1.0	0.1	8.0	5.4	9.0
BZX84C12T NEW	11.4	12.7	25	5.0	150	1.0	0.1	8.0	6.0	10.0
BZX84C13T NEW	12.4	14.1	30	5.0	170	1.0	0.1	8.0	7.0	11.0
BZX84C15T NEW	13.8	15.6	30	5.0	200	1.0	0.1	10.5	9.2	13.0
BZX84C16T NEW	15.3	17.1	40	5.0	200	1.0	0.1	11.2	10.4	14.0
BZX84C18T NEW	16.8	19.1	45	5.0	225	1.0	0.1	12.6	12.4	16.0
BZX84C20T NEW	18.8	21.2	55	5.0	225	1.0	0.1	14.0	14.4	18.0
BZX84C22T NEW	20.8	23.3	55	5.0	250	1.0	0.1	15.4	16.4	20.0
BZX84C24T NEW	22.8	25.6	70	5.0	250	1.0	0.1	16.8	18.4	22.0
BZX84C27T NEW	25.1	28.9	80	2.0	300	0.5	0.1	18.9	21.4	25.3
BZX84C30T NEW	28.0	32.0	80	2.0	300	0.5	0.1	21.0	24.4	29.4
BZX84C33T NEW	31.0	35.0	80	2.0	300	0.5	0.1	23.1	27.4	33.4
BZX84C36T NEW	34.0	38.0	90	2.0	325	0.5	0.1	25.2	30.4	37.4
BZX84C39T NEW	37.0	41.0	130	2.0	350	0.5	0.1	27.3	33.4	41.2

1.  $V_Z$  measured @  $I_{ZT}$  using a pulse test.  $I_{ZT}$  pulse width = 300μs.

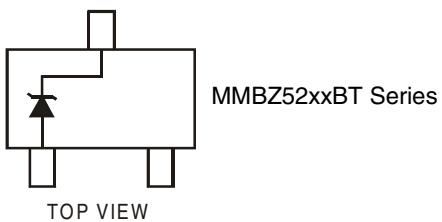


BZX84CxxT Series

TOP VIEW

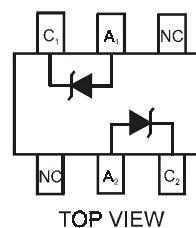
Type Number	Zener Voltage Range <sup>1</sup>			Max. Zener Impedance <sup>2</sup>				Max. Reverse <sup>1</sup> Leakage Current	
	$V_Z @ I_{ZT}$			$Z_{ZT} @ I_{ZT}$		$Z_{ZK} @ I_{ZK}$		$I_R @ V_R$	
	Nom V	Min V	Max V	$\Omega$	mA	$\Omega$	mA	$\mu A$	V
<b>150mW Zener Diodes / SOT-523 (Continued)</b>									
									
MMBZ5221BT NEW	2.4	2.28	2.52	30	20	1200	0.25	100	1.0
MMBZ5223BT NEW	2.7	2.57	2.84	30	20	1300	0.25	75	1.0
MMBZ5225BT NEW	3.0	2.85	3.15	30	20	1600	0.25	50	1.0
MMBZ5226BT NEW	3.3	3.14	3.47	28	20	1600	0.25	25	1.0
MMBZ5227BT NEW	3.6	3.42	3.78	24	20	1700	0.25	15	1.0
MMBZ5228BT NEW	3.9	3.71	4.10	23	20	1900	0.25	10	1.0
MMBZ5229BT NEW	4.3	4.09	4.52	22	20	2000	0.25	5.0	1.0
MMBZ5230BT NEW	4.7	4.47	4.94	19	20	1900	0.25	5.0	2.0
MMBZ5231BT NEW	5.1	4.85	5.36	17	20	1600	0.25	5.0	2.0
MMBZ5232BT NEW	5.6	5.32	5.88	11	20	1600	0.25	5.0	3.0
MMBZ5234BT NEW	6.2	5.89	6.51	7	20	1000	0.25	5.0	4.0
MMBZ5235BT NEW	6.8	6.46	7.14	5	20	750	0.25	3.0	5.0
MMBZ5236BT NEW	7.5	7.13	7.88	6	20	500	0.25	3.0	6.0
MMBZ5237BT NEW	8.2	7.79	8.61	8	20	500	0.25	3.0	6.5
MMBZ5239BT NEW	9.1	8.65	9.56	10	20	600	0.25	3.0	7.0
MMBZ5240BT NEW	10	9.50	10.50	17	20	600	0.25	3.0	8.0
MMBZ5241BT NEW	11	10.45	11.55	22	20	600	0.25	2.0	8.4
MMBZ5242BT NEW	12	11.40	12.60	30	20	600	0.25	1.0	9.1
MMBZ5243BT NEW	13	12.35	13.65	13	9.5	600	0.25	0.5	9.9
MMBZ5245BT NEW	15	14.25	15.75	16	8.5	600	0.25	0.1	11
MMBZ5246BT NEW	16	15.20	16.80	17	7.8	600	0.25	0.1	12
MMBZ5248BT NEW	18	17.10	18.90	21	7.0	600	0.25	0.1	14
MMBZ5250BT NEW	20	19.00	21.00	25	6.2	600	0.25	0.1	15
MMBZ5251BT NEW	22	20.90	23.10	29	5.6	600	0.25	0.1	17
MMBZ5252BT NEW	24	22.80	25.20	33	5.2	600	0.25	0.1	18
MMBZ5254BT NEW	27	25.65	28.35	41	5.0	600	0.25	0.1	21
MMBZ5255BT NEW	28	26.60	29.40	44	4.5	600	0.25	0.1	21
MMBZ5256BT NEW	30	28.50	31.50	49	4.2	600	0.25	0.1	23
MMBZ5257BT NEW	33	31.35	34.65	58	3.8	700	0.25	0.1	25
MMBZ5258BT NEW	36	34.20	37.80	70	3.4	700	0.25	0.1	27
MMBZ5259BT NEW	39	37.05	40.95	80	3.2	800	0.25	0.1	30

1. Short duration test pulse used to minimize self-heating effect.  
 2. f = 1KHz.



Type Number	Zener Voltage Range <sup>1</sup>		Max. Zener Impedance				Temperature Coefficient		Max. Reverse Leakage Current	
	V <sub>Z</sub> @ I <sub>ZT</sub>		Z <sub>ZT</sub> @ I <sub>ZT</sub>		Z <sub>ZK</sub> @ I <sub>ZK</sub>		T <sub>C</sub>		I <sub>R</sub> @ V <sub>R</sub>	
	Min V	Max V	Ω	mA	Ω	mA	Min	Max	μA	V
<b>200mW Zener Diodes (Dual, Isolated) / SOT-363</b>										
BZX84C2V4S	2.2	2.6	100	5.0	600	1.0	-3.5	0	50	1.0
BZX84C2V7S	2.5	2.9	100	5.0	600	1.0	-3.5	0	20	1.0
BZX84C3V0S	2.8	3.2	95	5.0	600	1.0	-3.5	0	10	1.0
BZX84C3V3S	3.1	3.5	95	5.0	600	1.0	-3.5	0	5.0	1.0
BZX84C3V6S	3.4	3.8	90	5.0	600	1.0	-3.5	0	5.0	1.0
BZX84C3V9S	3.7	4.1	90	5.0	600	1.0	-3.5	0	3.0	1.0
BZX84C4V3S	4.0	4.6	90	5.0	600	1.0	-3.5	0	3.0	1.0
BZX84C4V7S	4.4	5.0	80	5.0	500	1.0	-3.5	0.2	3.0	2.0
BZX84C5V1S	4.8	5.4	60	5.0	480	1.0	-2.7	1.2	2.0	2.0
BZX84C5V6S	5.2	6.0	40	5.0	400	1.0	-2.0	2.5	1.0	2.0
BZX84C6V2S	5.8	6.6	10	5.0	150	1.0	0.4	3.7	3.0	4.0
BZX84C6V8S	6.4	7.2	15	5.0	80	1.0	1.2	4.5	2.0	4.0
BZX84C7V5S	7.0	7.9	15	5.0	80	1.0	2.5	5.3	1.0	5.0
BZX84C8V2S	7.7	8.7	15	5.0	80	1.0	3.2	6.2	0.7	5.0
BZX84C9V1S	8.5	9.6	15	5.0	100	1.0	3.8	7.0	0.5	6.0
BZX84C10S	9.4	10.6	20	5.0	150	1.0	4.5	8.0	0.2	7.0
BZX84C11S	10.4	11.6	20	5.0	150	1.0	5.4	9.0	0.1	8.0
BZX84C12S	11.4	12.7	25	5.0	150	1.0	6.0	10.0	0.1	8.0
BZX84C13S	12.4	14.1	30	5.0	170	1.0	7.0	11.0	0.1	8.0
BZX84C15S	13.8	15.6	30	5.0	200	1.0	9.2	13.0	0.1	10.5
BZX84C16S	15.3	17.1	40	5.0	200	1.0	10.4	14.0	0.1	11.2
BZX84C18S	16.8	19.1	45	5.0	225	1.0	12.4	16.0	0.1	12.6
BZX84C20S	18.8	21.2	55	5.0	225	1.0	14.4	18.0	0.1	14.0
BZX84C22S	20.8	23.3	55	5.0	250	1.0	16.4	20.0	0.1	15.4
BZX84C24S	22.8	25.6	70	5.0	250	1.0	18.4	22.0	0.1	16.8
BZX84C27S	25.1	28.9	80	2.0	300	0.5	21.4	25.3	0.1	18.9
BZX84C30S	28.0	32.0	80	2.0	300	0.5	24.4	29.4	0.1	21.0
BZX84C33S	31.0	35.0	80	2.0	325	0.5	27.4	33.4	0.1	23.1
BZX84C36S	34.0	38.0	90	2.0	350	0.5	30.4	37.4	0.1	25.2
BZX84C39S	37.0	41.0	130	2.0	350	0.5	33.4	41.2	0.1	27.3

1. V<sub>Z</sub> measured @ I<sub>ZT</sub> using a pulse test. I<sub>ZT</sub> pulse width = 300μs, period = 5ms.



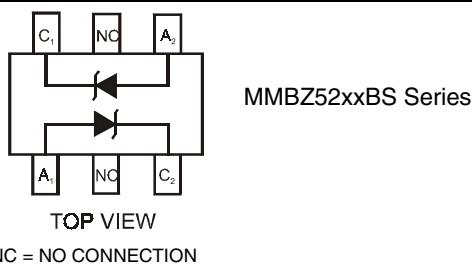
BZX84CxxS Series

TOP VIEW

NC = NO CONNECTION

Type Number	Zener Voltage Range <sup>1</sup>			Max. Zener Impedance				Max. Reverse Leakage Current	
	V <sub>Z</sub> @ I <sub>ZT</sub>			Z <sub>ZT</sub> @ I <sub>ZT</sub>		Z <sub>ZK</sub> @ I <sub>ZK</sub>		I <sub>R</sub> @ V <sub>R</sub>	
	Nom V	Min V	Max V	Ω	mA	Ω	mA	μA	V
<b>200mW Zener Diodes (Dual, Isolated) / SOT-363 (Continued)</b>									
MMBZ5221BS	2.4	2.28	2.52	30	20	1200	0.25	100	1.0
MMBZ5223BS	2.7	2.57	2.84	30	20	1300	0.25	75	1.0
MMBZ5225BS	3.0	2.85	3.15	30	20	1600	0.25	50	1.0
MMBZ5226BS	3.3	3.14	3.47	28	20	1600	0.25	25	1.0
MMBZ5227BS	3.6	3.42	3.78	24	20	1700	0.25	15	1.0
MMBZ5228BS	3.9	3.71	4.10	23	20	1900	0.25	10	1.0
MMBZ5229BS	4.3	4.09	4.52	22	20	2000	0.25	5.0	1.0
MMBZ5230BS	4.7	4.47	4.94	19	20	1900	0.25	5.0	2.0
MMBZ5231BS	5.1	4.85	5.36	17	20	1600	0.25	5.0	2.0
MMBZ5232BS	5.6	5.32	5.88	11	20	1600	0.25	5.0	3.0
MMBZ5233BS	6.0	5.70	6.30	7	20	1600	0.25	5.0	3.5
MMBZ5234BS	6.2	5.89	6.51	7	20	1000	0.25	5.0	4.0
MMBZ5235BS	6.8	6.46	7.14	5	20	750	0.25	3.0	5.0
MMBZ5236BS	7.5	7.13	7.88	6	20	500	0.25	3.0	6.0
MMBZ5237BS	8.2	7.79	8.61	8	20	500	0.25	3.0	6.5
MMBZ5238BS	8.7	8.27	9.14	8	20	600	0.25	3.0	6.5
MMBZ5239BS	9.1	8.65	9.56	10	20	600	0.25	3.0	7.0
MMBZ5240BS	10	9.50	10.50	17	20	600	0.25	3.0	8.0
MMBZ5241BS	11	10.45	11.55	22	20	600	0.25	2.0	8.4
MMBZ5242BS	12	11.40	12.60	30	20	600	0.25	1.0	9.1
MMBZ5243BS	13	12.35	13.65	13	9.5	600	0.25	0.5	9.9
MMBZ5245BS	15	14.25	15.75	16	8.5	600	0.25	0.1	11
MMBZ5246BS	16	15.20	16.80	17	7.8	600	0.25	0.1	12
MMBZ5248BS	18	17.10	18.90	21	7.0	600	0.25	0.1	14
MMBZ5250BS	20	19.00	21.00	25	6.2	600	0.25	0.1	15
MMBZ5251BS	22	20.90	23.10	29	5.6	600	0.25	0.1	17
MMBZ5252BS	24	22.80	25.20	33	5.2	600	0.25	0.1	18
MMBZ5254BS	27	25.65	28.35	41	5.0	600	0.25	0.1	21
MMBZ5255BS	28	26.60	29.40	44	4.5	600	0.25	0.1	21
MMBZ5256BS	30	28.50	31.50	49	4.2	600	0.25	0.1	23
MMBZ5257BS	33	31.35	34.65	58	3.8	700	0.25	0.1	25
MMBZ5258BS	36	34.20	37.80	70	3.4	700	0.25	0.1	27
MMBZ5259BS	39	37.05	40.95	80	3.2	800	0.25	0.1	30

1. V<sub>Z</sub> measured @ I<sub>ZT</sub> using a pulse test. I<sub>ZT</sub> pulse width = 1.0ms.



Type Number	Zener Voltage Range		Max. Zener Impedance				Temperature Coefficient		Max. Reverse Current	
	$V_Z @ I_{ZT}$		$Z_{ZT} @ I_{ZT}$		$Z_{ZK} @ I_{ZK}$		TC (mV / °C)		$I_R @ V_R$	
	Min (V)	Max (V)	$\Omega$	mA	$\Omega$	mA	Min	Max	$\mu A$	V

### 200mW Quad Zener Diode Array / SOT-363



QZX363C5V6	5.32	5.88	40	5.0	400	1.0	-2.0	2.5	1.0	2.0
QZX363C6V8	6.47	7.14	15	5.0	80	1.0	1.2	4.5	2.0	4.0
QZX363C15 NEW	13.8	15.6	30	5.0	200	1.0	9.2	13.0	0.1	10.5
QZX363C20	19.0	21.0	55	5.0	225	1.0	14.4	18.0	0.1	14

### 200mW Triple Zener Diode Array / SOT-363

NEW



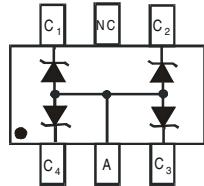
TBZ363C5V5 NEW	5.22	5.78	80	5.0	500	1.0	-5.5	-2.2	1.0	2.0
TBZ363C6V4 NEW	6.08	6.72	50	5.0	400	1.0	-4.0	0.5	2.0	3.0
TBZ363C7V0 NEW	6.65	7.35	18	5.0	200	1.0	-1.6	1.7	2.0	4.0
TBZ363C20V8 NEW	19.76	21.84	58	5.0	225	1.0	12.4	16.0	0.1	14

### 200mW Triple Bi-Directional Zener Diode Array / SOT-363

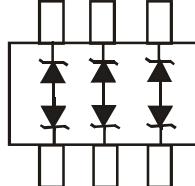
NEW



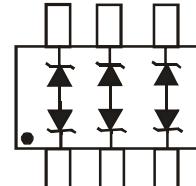
TLC363C5V5 NEW	5.22	5.78	80	5.0	500	1.0	-5.5	-2.2	1.0	2.0
TLC363C6V4 NEW	6.08	6.72	50	5.0	400	1.0	-4.0	0.5	2.0	3.0
TLC363C7V0 NEW	6.65	7.35	18	5.0	200	1.0	-1.6	1.7	2.0	4.0
TLC363C20V8 NEW	19.76	21.84	58	5.0	225	1.0	12.4	16.0	0.05	14



QZX363Cxx Series

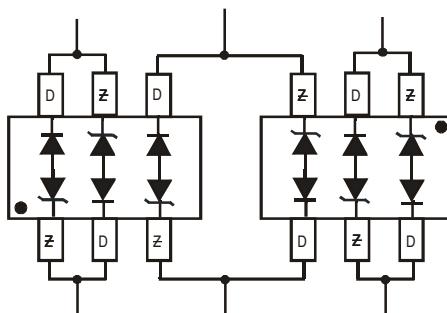


TBZ363Cxx Series



TLC363Cxx Series

TOP VIEW



TLC Series

Two packages connected to yield three low capacitance bi-directional zener circuits.

Type Number	Zener Voltage Range <sup>1</sup>		Max. Zener Impedance				Maximum Reverse Current		Temperature Coefficient of Zener Voltage @ $I_{ZT}$ mV/°C	
	$V_Z$ @ $I_{ZT}$		$Z_{ZT}$ @ $I_{ZT}$		$Z_{ZK}$ @ $I_{ZK}$		$I_R$	$V_R$		
	Min V	Max V	$\Omega$	mA	$\Omega$	mA	uA	V		
<b>200mW Zener Diodes / SOD-323</b>										
BZT52C2V0S <sup>NEW</sup>	1.9	2.1	100	5.0	600	1.0	150	1.0	-3.5	0
BZT52C2V4S	2.2	2.6	100	5.0	600	1.0	50	1.0	-3.5	0
BZT52C2V7S	2.5	2.9	100	5.0	600	1.0	20	1.0	-3.5	0
BZT52C3V0S	2.8	3.2	95	5.0	600	1.0	10	1.0	-3.5	0
BZT52C3V3S	3.1	3.5	95	5.0	600	1.0	5	1.0	-3.5	0
BZT52C3V6S	3.4	3.8	90	5.0	600	1.0	5	1.0	-3.5	0
BZT52C3V9S	3.7	4.1	90	5.0	600	1.0	3	1.0	-3.5	0
BZT52C4V3S	4.0	4.6	90	5.0	600	1.0	3	1.0	-3.5	0
BZT52C4V7S	4.4	5.0	80	5.0	500	1.0	3	2.0	-3.5	0.2
BZT52C5V1S	4.8	5.4	60	5.0	480	1.0	2	2.0	-2.7	1.2
BZT52C5V6S	5.2	6.0	40	5.0	400	1.0	1	2.0	-2.0	2.5
BZT52C6V2S	5.8	6.6	10	5.0	150	1.0	3	4.0	0.4	3.7
BZT52C6V8S	6.4	7.2	15	5.0	80	1.0	2	4.0	1.2	4.5
BZT52C7V5S	7.0	7.9	15	5.0	80	1.0	1	5.0	2.5	5.3
BZT52C8V2S	7.7	8.7	15	5.0	80	1.0	0.7	5.0	3.2	6.2
BZT52C9V1S	8.5	9.6	15	5.0	100	1.0	0.5	6.0	3.8	7.0
BZT52C10S	9.4	10.6	20	5.0	150	1.0	0.2	7.0	4.5	8.0
BZT52C11S	10.4	11.6	20	5.0	150	1.0	0.1	8.0	5.4	9.0
BZT52C12S	11.4	12.7	25	5.0	150	1.0	0.1	8.0	6.0	10.0
BZT52C13S	12.4	14.1	30	5.0	170	1.0	0.1	8.0	7.0	11.0
BZT52C15S	13.8	15.6	30	5.0	200	1.0	0.1	10.5	9.2	13.0
BZT52C16S	15.3	17.1	40	5.0	200	1.0	0.1	11.2	10.4	14.0
BZT52C18S	16.8	19.1	45	5.0	225	1.0	0.1	12.6	12.4	16.0
BZT52C20S	18.8	21.2	55	5.0	225	1.0	0.1	14.0	14.4	18.0
BZT52C22S	20.8	23.3	55	5.0	250	1.0	0.1	15.4	16.4	20.0
BZT52C24S	22.8	25.6	70	5.0	250	1.0	0.1	16.8	18.4	22.0
BZT52C27S	25.1	28.9	80	2.0	300	0.5	0.1	18.9	21.4	25.3
BZT52C30S	28.0	32.0	80	2.0	300	0.5	0.1	21.0	24.4	29.4
BZT52C33S	31.0	35.0	80	2.0	325	0.5	0.1	23.1	27.4	33.4
BZT52C36S	34.0	38.0	90	2.0	350	0.5	0.1	25.2	30.4	37.4
BZT52C39S	37.0	41.0	130	2.0	350	0.5	0.1	27.3	33.4	41.2

1.  $V_Z$  measured @  $I_{ZT}$  using a pulse test.  $I_{ZT}$  pulse width = 300μs.

Type Number	Zener Voltage Range <sup>1</sup>			Max. Zener Impedance				Max. Reverse Leakage Current	
	$V_Z @ I_{ZT}$			$Z_{ZT} @ I_{ZT}$		$Z_{ZK} @ I_{ZK}$		$I_R @ V_R$	
	Nom V	Min V	Max V	$\Omega$	mA	$\Omega$	mA	$\mu A$	V
<b>200mW Zener Diodes / SOD-323 (Continued)</b>									
MMSZ5221BS	2.4	2.28	2.52	30	20	1200	0.25	100	1.0
MMSZ5223BS	2.7	2.57	2.84	30	20	1300	0.25	75	1.0
MMSZ5225BS	3.0	2.85	3.15	30	20	1600	0.25	50	1.0
MMSZ5226BS	3.3	3.14	3.47	28	20	1600	0.25	25	1.0
MMSZ5227BS	3.6	3.42	3.78	24	20	1700	0.25	15	1.0
MMSZ5228BS	3.9	3.71	4.10	23	20	1900	0.25	10	1.0
MMSZ5229BS	4.3	4.09	4.52	22	20	2000	0.25	5.0	1.0
MMSZ5230BS	4.7	4.47	4.94	19	20	1900	0.25	5.0	2.0
MMSZ5231BS	5.1	4.85	5.36	17	20	1600	0.25	5.0	2.0
MMSZ5232BS	5.6	5.32	5.88	11	20	1600	0.25	5.0	3.0
MMSZ5233BS	6.0	5.70	6.30	7	20	1600	0.25	5.0	3.5
MMSZ5234BS	6.2	5.89	6.51	7	20	1000	0.25	5.0	4.0
MMSZ5235BS	6.8	6.46	7.14	5	20	750	0.25	3.0	5.0
MMSZ5236BS	7.5	7.13	7.88	6	20	500	0.25	3.0	6.0
MMSZ5237BS	8.2	7.79	8.61	8	20	500	0.25	3.0	6.5
MMSZ5238BS	8.7	8.27	9.14	8	20	600	0.25	3.0	6.5
MMSZ5239BS	9.1	8.65	9.56	10	20	600	0.25	3.0	7.0
MMSZ5240BS	10	9.50	10.50	17	20	600	0.25	3.0	8.0
MMSZ5241BS	11	10.45	11.55	22	20	600	0.25	2.0	8.4
MMSZ5242BS	12	11.40	12.60	30	20	600	0.25	1.0	9.1
MMSZ5243BS	13	12.35	13.65	13	9.5	600	0.25	0.5	9.9
MMSZ5245BS	15	14.25	15.75	16	8.5	600	0.25	0.1	11
MMSZ5246BS	16	15.20	16.80	17	7.8	600	0.25	0.1	12
MMSZ5248BS	18	17.10	18.90	21	7.0	600	0.25	0.1	14
MMSZ5250BS	20	19.00	21.00	25	6.2	600	0.25	0.1	15
MMSZ5251BS	22	20.90	23.10	29	5.6	600	0.25	0.1	17
MMSZ5252BS	24	22.80	25.20	33	5.2	600	0.25	0.1	18
MMSZ5254BS	27	25.65	28.35	41	5.0	600	0.25	0.1	21
MMSZ5255BS	28	26.60	29.40	44	4.5	600	0.25	0.1	21
MMSZ5256BS	30	28.50	31.50	49	4.2	600	0.25	0.1	23
MMSZ5257BS	33	31.35	34.65	58	3.8	700	0.25	0.1	25
MMSZ5258BS	36	34.20	37.80	70	3.4	700	0.25	0.1	27
MMSZ5259BS	39	37.05	40.95	80	3.2	800	0.25	0.1	30

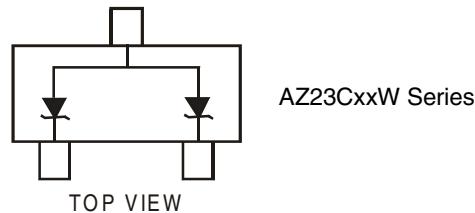
1.  $V_Z$  measured @  $I_{ZT}$  using a pulse test.  $I_{ZT}$  pulse width = 1.0ms.



Type Number	Zener Voltage Range <sup>1</sup>		Max. Zener Impedance				Maximum Reverse Current	
	V <sub>Z</sub> @ I <sub>ZT</sub>		Z <sub>ZT</sub> @ I <sub>ZT</sub>		Z <sub>ZK</sub> @ I <sub>ZK</sub>		I <sub>R</sub>	V <sub>R</sub>
	Min V	Max V	Ω	mA	Ω	mA	uA	V
<b>200mW High Precision Zener Diodes / SOD-323</b> 								
UDZ2V0B NEW	2.020	2.200	100	5.0	1000	0.5	120	0.5
UDZ2V2B NEW	2.220	2.410	100	5.0	1000	0.5	120	0.7
UDZ2V4B NEW	2.430	2.630	100	5.0	1000	0.5	120	1.0
UDZ2V7B NEW	2.690	2.910	110	5.0	1000	0.5	100	1.0
UDZ3V0B NEW	3.010	3.220	120	5.0	1000	0.5	50	1.0
UDZ3V3B NEW	3.320	3.530	120	5.0	1000	0.5	20	1.0
UDZ3V6B NEW	3.600	3.845	100	5.0	1000	1.0	10	1.0
UDZ3V9B NEW	3.890	4.160	100	5.0	1000	1.0	5	1.0
UDZ4V3B NEW	4.170	4.430	100	5.0	1000	1.0	5	1.0
UDZ4V7B NEW	4.550	4.750	100	5.0	800	0.5	2	1.0
UDZ5V1B NEW	4.980	5.200	80	5.0	500	0.5	2	1.5
UDZ5V6B NEW	5.490	5.730	60	5.0	200	0.5	1	2.5
UDZ6V2B NEW	6.060	6.330	60	5.0	100	0.5	1	3.0
UDZ6V8B NEW	6.650	6.930	40	5.0	60	0.5	0.5	3.5
UDZ7V5B NEW	7.280	7.600	30	5.0	60	0.5	0.5	4.0
UDZ8V2B NEW	8.020	8.360	30	5.0	60	0.5	0.5	5.0
UDZ9V1B NEW	8.850	9.230	30	5.0	60	0.5	0.5	6.0
UDZ10B NEW	9.770	10.210	30	5.0	60	0.5	0.1	7.0
UDZ11B NEW	10.760	11.220	30	5.0	60	0.5	0.1	8.0
UDZ12B NEW	11.740	12.240	30	5.0	80	0.5	0.1	9.0
UDZ13B NEW	12.910	13.490	37	5.0	80	0.5	0.1	10.0
UDZ15B NEW	14.340	14.980	42	5.0	80	0.5	0.1	11.0
UDZ16B NEW	15.850	16.510	50	5.0	80	0.5	0.1	12.0
UDZ18B NEW	17.560	18.350	65	5.0	80	0.5	0.1	13.0
UDZ20B NEW	19.520	20.390	85	5.0	100	0.5	0.1	15.0
UDZ22B NEW	21.540	22.470	100	5.0	100	0.5	0.1	17.0
UDZ24B NEW	23.720	24.780	120	5.0	120	0.5	0.1	19.0
UDZ27B NEW	26.190	27.530	150	5.0	150	0.5	0.1	21.0
UDZ30B NEW	29.190	30.690	200	5.0	200	0.5	0.1	23.0
UDZ33B NEW	32.150	33.790	250	5.0	250	0.5	0.1	25.0
UDZ36B NEW	35.070	36.870	300	5.0	300	0.5	0.1	27.0
UDZ39B NEW	38.025	39.975	350	5.0	350	0.5	0.1	29.0
UDZ43B NEW	41.925	44.075	400	2.0	400	0.5	0.1	32.0
UDZ47B NEW	45.825	48.175	450	2.0	450	0.5	0.1	35.0
UDZ51B NEW	49.725	52.275	500	2.0	500	0.5	0.1	38.0
UDZ56B NEW	54.600	57.400	550	2.0	550	0.5	0.1	42.0

1. V<sub>Z</sub> measured @ I<sub>ZT</sub> using a pulse test. I<sub>ZT</sub> pulse width = 300μs.

Type Number	Zener Voltage Range <sup>1</sup>		Max. Zener Impedance				Max. Reverse Leakage Current	
	$V_Z @ I_{ZT}$		$Z_{ZT} @ I_{ZT}$		$Z_{ZK} @ I_{ZK}$		$I_R @ V_R$	
	Min V	Max V	$\Omega$	mA	$\Omega$	mA	$\mu A$	V
<b>200mW Zener Diodes (Dual, Common Anode) / SOT-323</b> 								
AZ23C5V6W NEW	5.3	5.8	40	5.0	400	1.0	1.0	2.0
AZ23C6V8W NEW	6.4	7.1	15	5.0	80	1.0	2.0	4.0
AZ23C10W NEW	9.4	10.6	15	5.0	70	1.0	0.2	7.0
AZ23C18W NEW	16.8	19.1	50	5.0	170	1.0	0.1	12.6

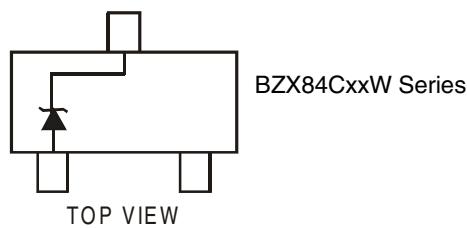


AZ23CxxW Series



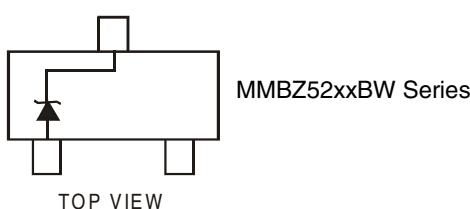
Type Number	Zener Voltage Range <sup>1</sup>		Max. Zener Impedance				Max. Reverse Leakage Current	
	V <sub>Z</sub> @ I <sub>ZT</sub>		Z <sub>ZT</sub> @ I <sub>ZT</sub>		Z <sub>ZK</sub> @ I <sub>ZK</sub>		I <sub>R</sub> @ V <sub>R</sub>	
	Min V	Max V	Ω	mA	Ω	mA	μA	V
<b>200mW Zener Diodes / SOT-323</b>								
BZX84C2V4W	2.2	2.6	100	5.0	600	1.0	50	1.0
BZX84C2V7W	2.5	2.9	100	5.0	600	1.0	20	1.0
BZX84C3V0W	2.8	3.2	95	5.0	600	1.0	20	1.0
BZX84C3V3W	3.1	3.5	95	5.0	600	1.0	5.0	1.0
BZX84C3V6W	3.4	3.8	90	5.0	600	1.0	5.0	1.0
BZX84C3V9W	3.7	4.1	90	5.0	600	1.0	3.0	1.0
BZX84C4V3W	4.0	4.6	90	5.0	600	1.0	3.0	1.0
BZX84C4V7W	4.4	5.0	80	5.0	600	1.0	3.0	2.0
BZX84C5V1W	4.8	5.4	60	5.0	500	1.0	2.0	2.0
BZX84C5V6W	5.2	6.0	40	5.0	480	1.0	1.0	2.0
BZX84C6V2W	5.8	6.6	10	5.0	400	1.0	3.0	4.0
BZX84C6V8W	6.4	7.2	15	5.0	150	1.0	2.0	4.0
BZX84C7V5W	7.0	7.9	15	5.0	80	1.0	1.0	5.0
BZX84C8V2W	7.7	8.7	15	5.0	80	1.0	0.7	5.0
BZX84C9V1W	8.5	9.6	15	5.0	80	1.0	0.5	6.0
BZX84C10W	9.4	10.6	20	5.0	100	1.0	0.2	7.0
BZX84C11W	10.4	11.6	20	5.0	150	1.0	0.1	8.0
BZX84C12W	11.4	12.7	25	5.0	150	1.0	0.1	8.0
BZX84C13W	12.4	14.1	30	5.0	150	1.0	0.1	8.0
BZX84C15W	13.8	15.6	30	5.0	170	1.0	0.1	10.5
BZX84C16W	15.3	17.1	40	5.0	200	1.0	0.1	11.2
BZX84C18W	16.8	19.1	45	5.0	200	1.0	0.1	12.6
BZX84C20W	18.8	21.2	55	5.0	225	1.0	0.1	14.0
BZX84C22W	20.8	23.3	55	5.0	225	1.0	0.1	15.4
BZX84C24W	22.8	25.6	70	5.0	250	1.0	0.1	16.8
BZX84C27W	25.1	28.9	80	2.0	250	0.5	0.1	18.9
BZX84C30W	28.0	32.0	80	2.0	300	0.5	0.1	21.0
BZX84C33W	31.0	35.0	80	2.0	300	0.5	0.1	23.1
BZX84C36W	34.0	38.0	90	2.0	325	0.5	0.1	25.2
BZX84C39W	37.0	41.0	130	2.0	350	0.5	0.1	27.3

1. V<sub>Z</sub> measured @ I<sub>ZT</sub> using a pulse test. I<sub>ZT</sub> pulse width = 300us.



Type Number	Zener Voltage Range <sup>1</sup>			Max. Zener Impedance				Max. Reverse Leakage Current	
	V <sub>Z</sub> @ I <sub>ZT</sub>			Z <sub>ZT</sub> @ I <sub>ZT</sub>		Z <sub>ZK</sub> @ I <sub>ZK</sub>		I <sub>R</sub> @ V <sub>R</sub>	
	Nom V	Min V	Max V	Ω	mA	Ω	mA	μA	V
<b>200mW Zener Diodes / SOT-323 (Continued)</b>									
MMBZ5221BW	2.4	2.28	2.52	30	20	1200	0.25	100	1.0
MMBZ5223BW	2.7	2.57	2.84	30	20	1300	0.25	75	1.0
MMBZ5225BW	3.0	2.85	3.15	30	20	1600	0.25	50	1.0
MMBZ5226BW	3.3	3.14	3.47	28	20	1600	0.25	25	1.0
MMBZ5227BW	3.6	3.42	3.78	24	20	1700	0.25	15	1.0
MMBZ5228BW	3.9	3.71	4.10	23	20	1900	0.25	10	1.0
MMBZ5229BW	4.3	4.09	4.52	22	20	2000	0.25	5.0	1.0
MMBZ5230BW	4.7	4.47	4.94	19	20	1900	0.25	5.0	2.0
MMBZ5231BW	5.1	4.85	5.36	17	20	1600	0.25	5.0	2.0
MMBZ5232BW	5.6	5.32	5.88	11	20	1600	0.25	5.0	3.0
MMBZ5234BW	6.2	5.89	6.51	7.0	20	1000	0.25	5.0	4.0
MMBZ5235BW	6.8	6.46	7.14	5.0	20	750	0.25	3.0	5.0
MMBZ5236BW	7.5	7.13	7.88	6.0	20	500	0.25	3.0	6.0
MMBZ5237BW	8.2	7.79	8.61	8.0	20	500	0.25	3.0	6.5
MMBZ5239BW	9.1	8.65	9.56	10	20	600	0.25	3.0	7.0
MMBZ5240BW	10	9.50	10.50	17	20	600	0.25	3.0	8.0
MMBZ5241BW	11	10.45	11.55	22	20	600	0.25	2.0	8.4
MMBZ5242BW	12	11.40	12.60	30	20	600	0.25	1.0	9.1
MMBZ5243BW	13	12.35	13.65	13	9.5	600	0.25	0.5	9.9
MMBZ5245BW	15	14.25	15.75	16	8.5	600	0.25	0.1	11
MMBZ5246BW	16	15.20	16.80	17	7.8	600	0.25	0.1	12
MMBZ5248BW	18	17.10	18.90	21	7.0	600	0.25	0.1	14
MMBZ5250BW	20	19.00	21.00	25	6.2	600	0.25	0.1	15
MMBZ5251BW	22	20.90	23.10	29	5.6	600	0.25	0.1	17
MMBZ5252BW	24	22.80	25.20	33	5.2	600	0.25	0.1	18
MMBZ5254BW	27	25.65	28.35	41	5.0	600	0.25	0.1	21
MMBZ5255BW	28	26.60	29.40	44	4.5	600	0.25	0.1	21
MMBZ5256BW	30	28.50	31.50	49	4.2	600	0.25	0.1	23
MMBZ5257BW	33	31.35	34.65	58	3.8	700	0.25	0.1	25
MMBZ5258BW	36	34.20	37.80	70	3.4	700	0.25	0.1	27
MMBZ5259BW	39	37.05	40.95	80	3.2	800	0.25	0.1	30

1. V<sub>Z</sub> measured @ I<sub>ZT</sub> using a pulse test. I<sub>ZT</sub> pulse width = 1.0ms.



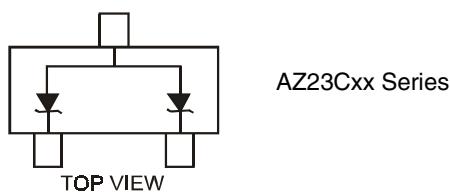
Type Number	Zener Voltage Range <sup>1</sup>		Max. Zener Impedance		Typical Temperature Coefficient	Min. Reverse Voltage
	$V_Z @ I_{ZT} = 5.0\text{mA}$		$Z_{ZT} @ I_{ZT} = 5.0\text{m}\Omega$	$Z_{ZK} @ I_{ZK} = 1.0\text{mA}$		
	Min V	Max V	$\Omega$	$\Omega$	% / °C	V

### 300mW Zener Diodes (Dual, Common Anode) / SOT-23



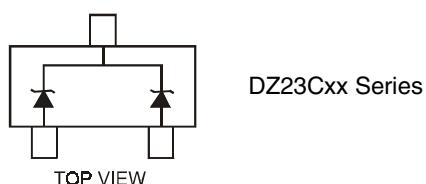
AZ23C2V7	2.5	2.9	83	500	-0.065	—
AZ23C3V0	2.8	3.2	95	500	-0.060	—
AZ23C3V3	3.1	3.5	95	500	-0.055	—
AZ23C3V6	3.4	3.8	95	500	-0.055	—
AZ23C3V9	3.7	4.1	95	500	-0.050	—
AZ23C4V3	4.0	4.6	95	500	-0.035	—
AZ23C4V7	4.4	5.0	78	500	-0.015	—
AZ23C5V1	4.8	5.4	60	480	+0.005	0.8
AZ23C5V6	5.2	6.0	40	400	+0.020	1.0
AZ23C6V2	5.8	6.6	10	200	+0.030	2.0
AZ23C6V8	6.4	7.2	8.0	150	+0.045	3.0
AZ23C7V5	7.0	7.9	7.0	50	+0.050	5.0
AZ23C8V2	7.7	8.7	7.0	50	+0.055	6.0
AZ23C9V1	8.5	9.6	10	50	+0.065	7.0
AZ23C10	9.4	10.6	15	70	+0.065	7.5
AZ23C11	10.4	11.6	20	70	+0.070	8.5
AZ23C12	11.4	12.7	20	90	+0.075	9.0
AZ23C13	12.4	14.1	25	110	+0.080	10.0
AZ23C15	13.8	15.6	30	110	+0.080	11.0
AZ23C16	15.3	17.1	40	170	+0.090	12.0
AZ23C18	16.8	19.1	50	170	+0.090	14.0
AZ23C20	18.8	21.2	50	220	+0.090	15.0
AZ23C22	20.8	23.3	55	220	+0.090	17.0
AZ23C24	22.8	25.6	80	220	+0.090	18.0
AZ23C27	25.1	28.9	80	250	+0.090	20.0
AZ23C30	28	32	80	250	+0.090	22.5
AZ23C33	31	35	80	250	+0.090	25.0
AZ23C36	34	38	90	250	+0.090	27.0
AZ23C39	37	41	90	300	+0.110	29.0
AZ23C43	40	46	100	700	+0.110	32.0
AZ23C47	44	50	100	750	+0.110	35.0
AZ23C51	48	54	100	750	+0.110	38.0

1. Tested with  $I_{ZT}$  current pulses. Pulse width = 5.0ms.



Type Number	Zener Voltage Range <sup>1</sup>		Max. Zener Impedance		Typical Temperature Coefficient	Min. Reverse Voltage
	$V_Z @ I_{ZT} = 5.0\text{mA}$	$Z_{ZT} @ I_{ZT} = 5.0\text{mA}$	$Z_{ZK} @ I_{ZK} = 1.0\text{mA}$	$T_C$		$V_R @ I_R = 0.1\mu\text{A}$
	Min V	Max V	$\Omega$	$\Omega$	% / °C	V
<b>300mW Zener Diodes (Dual, Common Cathode) / SOT-23</b>						
DZ23C2V7	2.5	2.9	83	500	-0.065	—
DZ23C3V0	2.8	3.2	95	500	-0.060	—
DZ23C3V3	3.1	3.5	95	500	-0.055	—
DZ23C3V6	3.4	3.8	95	500	-0.055	—
DZ23C3V9	3.7	4.1	95	500	-0.050	—
DZ23C4V3	4.0	4.6	95	500	-0.035	—
DZ23C4V7	4.4	5.0	78	500	-0.015	—
DZ23C5V1	4.8	5.4	60	480	+0.005	0.8
DZ23C5V6	5.2	6.0	40	400	+0.020	1.0
DZ23C6V2	5.8	6.6	10	200	+0.030	2.0
DZ23C6V8	6.4	7.2	8.0	150	+0.045	3.0
DZ23C7V5	7.0	7.9	7.0	50	+0.050	5.0
DZ23C8V2	7.7	8.7	7.0	50	+0.055	6.0
DZ23C9V1	8.5	9.6	10	50	+0.065	7.0
DZ23C10	9.4	10.6	15	70	+0.065	7.5
DZ23C11	10.4	11.6	20	70	+0.070	8.5
DZ23C12	11.4	12.7	20	90	+0.075	9.0
DZ23C13	12.4	14.1	25	110	+0.080	10.0
DZ23C15	13.8	15.6	30	110	+0.080	11.0
DZ23C16	15.3	17.1	40	170	+0.090	12.0
DZ23C18	16.8	19.1	50	170	+0.090	14.0
DZ23C20	18.8	21.2	50	220	+0.090	15.0
DZ23C22	20.8	23.3	55	220	+0.090	17.0
DZ23C24	22.8	25.6	80	220	+0.090	18.0
DZ23C27	25.1	28.9	80	250	+0.090	20.0
DZ23C30	28	32	80	250	+0.090	22.5
DZ23C33	31	35	80	250	+0.090	25.0
DZ23C36	34	38	90	250	+0.090	27.0
DZ23C39	37	41	90	300	+0.110	29.0
DZ23C43	40	46	100	700	+0.110	32.0
DZ23C47	44	50	100	750	+0.110	35.0
DZ23C51	48	54	100	750	+0.110	38.0

1. Tested with  $I_{ZT}$  current pulses. Pulse width = 5.0ms.



DZ23Cxx Series

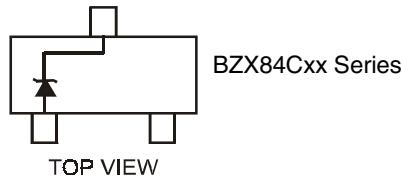
Type Number	Zener Voltage Range <sup>1</sup>		Max. Zener Impedance				Typical Temperature Coefficient		Max. Reverse Leakage Current	
	V <sub>Z</sub> @ I <sub>ZT</sub>		Z <sub>ZT</sub> @ I <sub>ZT</sub>		Z <sub>ZK</sub> @ I <sub>ZK</sub>		T <sub>C</sub>		I <sub>R</sub> @ V <sub>R</sub>	
	Min V	Max V	Ω	mA	Ω	mA	Min	Max	μA	V

### 350mW Zener Diodes (Single) / SOT-23



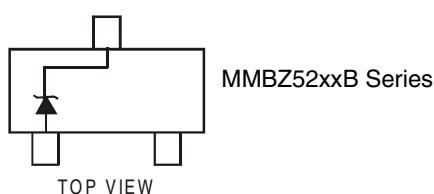
BZX84C2V4	2.2	2.6	100	5.0	600	1.0	-3.5	0	50	1.0
BZX84C2V7	2.5	2.9	100	5.0	600	1.0	-3.5	0	20	1.0
BZX84C3V0	2.8	3.2	95	5.0	600	1.0	-3.5	0	10	1.0
BZX84C3V3	3.1	3.5	95	5.0	600	1.0	-3.5	0	5.0	1.0
BZX84C3V6	3.4	3.8	90	5.0	600	1.0	-3.5	0	5.0	1.0
BZX84C3V9	3.7	4.1	90	5.0	600	1.0	-3.5	0	3.0	1.0
BZX84C4V3	4.0	4.6	90	5.0	600	1.0	-3.5	0	3.0	1.0
BZX84C4V7	4.4	5.0	80	5.0	500	1.0	-3.5	0.2	3.0	2.0
BZX84C5V1	4.8	5.4	60	5.0	480	1.0	-2.7	1.2	2.0	2.0
BZX84C5V6	5.2	6.0	40	5.0	400	1.0	-2.0	2.5	1.0	2.0
BZX84C6V2	5.8	6.6	10	5.0	150	1.0	0.4	3.7	3.0	4.0
BZX84C6V8	6.4	7.2	15	5.0	80	1.0	1.2	4.5	2.0	4.0
BZX84C7V5	7.0	7.9	15	5.0	80	1.0	2.5	5.3	1.0	5.0
BZX84C8V2	7.7	8.7	15	5.0	80	1.0	3.2	6.2	0.7	5.0
BZX84C9V1	8.5	9.6	15	5.0	100	1.0	3.8	7.0	0.5	6.0
BZX84C10	9.4	10.6	20	5.0	150	1.0	4.5	8.0	0.2	7.0
BZX84C11	10.4	11.6	20	5.0	150	1.0	5.4	9.0	0.1	8.0
BZX84C12	11.4	12.7	25	5.0	150	1.0	6.0	10.0	0.1	8.0
BZX84C13	12.4	14.1	30	5.0	170	1.0	7.0	11.0	0.1	8.0
BZX84C15	13.8	15.6	30	5.0	200	1.0	9.2	13.0	0.1	10.5
BZX84C16	15.3	17.1	40	5.0	200	1.0	10.4	14.0	0.1	11.2
BZX84C18	16.8	19.1	45	5.0	225	1.0	12.4	16.0	0.1	12.6
BZX84C20	18.8	21.2	55	5.0	225	1.0	14.4	18.0	0.1	14.0
BZX84C22	20.8	23.3	55	5.0	250	1.0	16.4	20.0	0.1	15.4
BZX84C24	22.8	25.6	70	5.0	250	1.0	18.4	22.0	0.1	16.8
BZX84C27	25.1	28.9	80	2.0	300	0.5	21.4	25.3	0.1	18.9
BZX84C30	28	32	80	2.0	300	0.5	24.4	29.4	0.1	21.0
BZX84C33	31	35	80	2.0	325	0.5	27.4	33.4	0.1	23.1
BZX84C36	34	38	90	2.0	350	0.5	30.4	37.4	0.1	25.2
BZX84C39	37	41	130	2.0	350	0.5	33.4	41.2	0.1	27.3
BZX84C43	40	46	150	2.0	375	0.5	10.0	12.0	0.1	30.1
BZX84C47	44	50	170	2.0	375	0.5	10.0	12.0	0.1	32.9
BZX84C51	48	54	180	2.0	400	0.5	10.0	12.0	0.1	35.7

1. V<sub>Z</sub> measured @ I<sub>ZT</sub> using a pulse test. I<sub>ZT</sub> pulse width = 5.0ms.



Type Number	Zener Voltage Range <sup>1</sup>			Max. Zener Impedance				Max. Reverse Leakage Current	
	$V_Z @ I_{ZT}$			$Z_{ZT} @ I_{ZT}$		$Z_{ZK} @ I_{ZK}$		$V_R @ I_R$	
	Nom V	Min V	Max V	$\Omega$	mA	$\Omega$	mA	$\mu A$	V
<b>350mW Zener Diodes / SOT-23</b>									
									
<b>MMBZ5221B</b>	2.4	2.28	2.52	30	20	1200	0.25	100	1.0
<b>MMBZ5223B</b>	2.7	2.57	2.84	30	20	1300	0.25	75	1.0
<b>MMBZ5225B</b>	3.0	2.85	3.15	30	20	1600	0.25	50	1.0
<b>MMBZ5226B</b>	3.3	3.14	3.47	28	20	1600	0.25	25	1.0
<b>MMBZ5227B</b>	3.6	3.42	3.78	24	20	1700	0.25	15	1.0
<b>MMBZ5228B</b>	3.9	3.71	4.10	23	20	1900	0.25	10	1.0
<b>MMBZ5229B</b>	4.3	4.09	4.52	22	20	2000	0.25	5.0	1.0
<b>MMBZ5230B</b>	4.7	4.47	4.94	19	20	1900	0.25	5.0	2.0
<b>MMBZ5231B</b>	5.1	4.85	5.36	17	20	1600	0.25	5.0	2.0
<b>MMBZ5232B</b>	5.6	5.32	5.88	11	20	1600	0.25	5.0	3.0
<b>MMBZ5233B</b>	6.0	5.70	6.30	7.0	20	1600	0.25	5.0	3.5
<b>MMBZ5234B</b>	6.2	5.89	6.51	7.0	20	1000	0.25	5.0	4.0
<b>MMBZ5235B</b>	6.8	6.46	7.14	5.0	20	750	0.25	3.0	5.0
<b>MMBZ5236B</b>	7.5	7.13	7.88	6.0	20	500	0.25	3.0	6.0
<b>MMBZ5237B</b>	8.2	7.79	8.61	8.0	20	500	0.25	3.0	6.5
<b>MMBZ5238B</b>	8.7	8.27	9.14	8.0	20	600	0.25	3.0	6.5
<b>MMBZ5239B</b>	9.1	8.65	9.56	10	20	600	0.25	3.0	7.0
<b>MMBZ5240B</b>	10	9.50	10.50	17	20	600	0.25	3.0	8.0
<b>MMBZ5241B</b>	11	10.45	11.55	22	20	600	0.25	2.0	8.4
<b>MMBZ5242B</b>	12	11.40	12.60	30	20	600	0.25	1.0	9.1
<b>MMBZ5243B</b>	13	12.35	13.65	13	9.5	600	0.25	0.5	9.9
<b>MMBZ5245B</b>	15	14.25	15.75	16	8.5	600	0.25	0.1	11
<b>MMBZ5246B</b>	16	15.20	16.80	17	7.8	600	0.25	0.1	12
<b>MMBZ5248B</b>	18	17.10	18.90	21	7.0	600	0.25	0.1	14
<b>MMBZ5250B</b>	20	19.00	21.00	25	6.2	600	0.25	0.1	15
<b>MMBZ5251B</b>	22	20.90	23.10	29	5.6	600	0.25	0.1	17
<b>MMBZ5252B</b>	24	22.80	25.20	33	5.2	600	0.25	0.1	18
<b>MMBZ5254B</b>	27	25.65	28.35	41	5.0	600	0.25	0.1	21
<b>MMBZ5255B</b>	28	26.60	29.40	44	4.5	600	0.25	0.1	21
<b>MMBZ5256B</b>	30	28.50	31.50	49	4.2	600	0.25	0.1	23
<b>MMBZ5257B</b>	33	31.35	34.65	58	3.8	700	0.25	0.1	25
<b>MMBZ5258B</b>	36	34.20	37.80	70	3.4	700	0.25	0.1	27
<b>MMBZ5259B</b>	39	37.05	40.95	80	3.2	800	0.25	0.1	30

1.  $V_Z$  measured @  $I_{ZT}$  using a pulse test.  $I_{ZT}$  pulse width = 1.0ms.



Type Number	Zener Voltage Range <sup>1</sup>			Max. Zener Impedance			Maximum Reverse Current		Temperature Coefficient of Zener Voltage @ $I_{ZT}$ mV/ $^{\circ}\text{C}$	
	$V_Z$ @ $I_{ZT}$			$Z_{ZT}$ @ $I_{ZT}$	$Z_{ZK}$ @ $I_{ZK}$		$I_R$	@ $V_R$		
	Min V	Max V	mA	$\Omega$	$\Omega$	mA	uA	V	Min	Max
<b>500mW Zener Diodes / SOD-123</b>										
BZT52C2V4	2.2	2.6	5	100	600	1.0	50	1.0	-3.5	0
BZT52C2V7	2.5	2.9	5	100	600	1.0	20	1.0	-3.5	0
BZT52C3V0	2.8	3.2	5	95	600	1.0	10	1.0	-3.5	0
BZT52C3V3	3.1	3.5	5	95	600	1.0	5.0	1.0	-3.5	0
BZT52C3V6	3.4	3.8	5	90	600	1.0	5.0	1.0	-3.5	0
BZT52C3V9	3.7	4.1	5	90	600	1.0	3.0	1.0	-3.5	0
BZT52C4V3	4.0	4.6	5	90	600	1.0	3.0	1.0	-3.5	0
BZT52C4V7	4.4	5.0	5	80	500	1.0	3.0	2.0	-3.5	0.2
BZT52C5V1	4.8	5.4	5	60	480	1.0	2.0	2.0	-2.7	1.2
BZT52C5V6	5.2	6.0	5	40	400	1.0	1.0	2.0	-2.0	2.5
BZT52C6V2	5.8	6.6	5	10	150	1.0	3.0	4.0	0.4	3.7
BZT52C6V8	6.4	7.2	5	15	80	1.0	2.0	4.0	1.2	4.5
BZT52C7V5	7.0	7.9	5	15	80	1.0	1.0	5.0	2.5	5.3
BZT52C8V2	7.7	8.7	5	15	80	1.0	0.7	5.0	3.2	6.2
BZT52C9V1	8.5	9.6	5	15	100	1.0	0.5	6.0	3.8	7.0
BZT52C10	9.4	10.6	5	20	150	1.0	0.2	7.0	4.5	8.0
BZT52C11	10.4	11.6	5	20	150	1.0	0.1	8.0	5.4	9.0
BZT52C12	11.4	12.7	5	25	150	1.0	0.1	8.0	6.0	10.0
BZT52C13	12.4	14.1	5	30	170	1.0	0.1	8.0	7.0	11.0
BZT52C15	13.8	15.6	5	30	200	1.0	0.1	10.5	9.2	13.0
BZT52C16	15.3	17.1	5	40	200	1.0	0.1	11.2	10.4	14.0
BZT52C18	16.8	19.1	5	45	225	1.0	0.1	12.6	12.4	16.0
BZT52C20	18.8	21.2	5	55	225	1.0	0.1	14.0	14.4	18.0
BZT52C22	20.8	23.3	5	55	250	1.0	0.1	15.4	16.4	20.0
BZT52C24	22.8	25.6	5	70	250	1.0	0.1	16.8	18.4	22.0
BZT52C27	25.1	28.9	2	80	300	0.5	0.1	18.9	21.4	25.3
BZT52C30	28	32	2	80	300	0.5	0.1	21.0	24.4	29.4
BZT52C33	31	35	2	80	325	0.5	0.1	23.1	27.4	33.4
BZT52C36	34	38	2	90	350	0.5	0.1	25.2	30.4	37.4
BZT52C39	37	41	2	130	350	0.5	0.1	27.3	33.4	41.2
BZT52C43	40	46	5	100	700	1.0	0.1	32	10.0	12.0
BZT52C47	44	50	5	100	750	1.0	0.1	35	10.0	12.0
BZT52C51	48	54	5	100	750	1.0	0.1	38	10.0	12.0

1. Tested with  $I_{ZT}$  current pulses. Pulse width = 5.0ms.

Type Number	Zener Voltage Range <sup>1</sup>			Max. Zener Impedance				Max. Reverse Leakage Current	
	V <sub>Z</sub> @ I <sub>ZT</sub>			Z <sub>ZT</sub> @ I <sub>ZT</sub>		Z <sub>ZK</sub> @ I <sub>ZK</sub>		I <sub>R</sub> @ V <sub>R</sub>	
	Nom V	Min V	Max V	Ω	mA	Ω	mA	μA	V
<b>500mW Zener Diodes / SOD-123</b>									
									
MMSZ5221B	2.4	2.28	2.52	30	20	1200	0.25	100	1.0
MMSZ5223B	2.7	2.57	2.84	30	20	1300	0.25	75	1.0
MMSZ5225B	3.0	2.85	3.15	30	20	1600	0.25	50	1.0
MMSZ5226B	3.3	3.14	3.47	28	20	1600	0.25	25	1.0
MMSZ5227B	3.6	3.42	3.78	24	20	1700	0.25	15	1.0
MMSZ5228B	3.9	3.71	4.10	23	20	1900	0.25	10	1.0
MMSZ5229B	4.3	4.09	4.52	22	20	2000	0.25	5.0	1.0
MMSZ5230B	4.7	4.47	4.94	19	20	1900	0.25	5.0	2.0
MMSZ5231B	5.1	4.85	5.36	17	20	1600	0.25	5.0	2.0
MMSZ5232B	5.6	5.32	5.88	11	20	1600	0.25	5.0	3.0
MMSZ5233B	6.0	5.70	6.30	7	20	1600	0.25	5.0	3.5
MMSZ5234B	6.2	5.89	6.51	7	20	1000	0.25	5.0	4.0
MMSZ5235B	6.8	6.46	7.14	5	20	750	0.25	3.0	5.0
MMSZ5236B	7.5	7.13	7.88	6	20	500	0.25	3.0	6.0
MMSZ5237B	8.2	7.79	8.61	8	20	500	0.25	3.0	6.5
MMSZ5238B	8.7	8.27	9.14	8	20	600	0.25	3.0	6.5
MMSZ5239B	9.1	8.65	9.56	10	20	600	0.25	3.0	7.0
MMSZ5240B	10	9.50	10.50	17	20	600	0.25	3.0	8.0
MMSZ5241B	11	10.45	11.55	22	20	600	0.25	2.0	8.4
MMSZ5242B	12	11.40	12.60	30	20	600	0.25	1.0	9.1
MMSZ5243B	13	12.35	13.65	13	9.5	600	0.25	0.5	9.9
MMSZ5245B	15	14.25	15.75	16	8.5	600	0.25	0.1	11
MMSZ5246B	16	15.20	16.80	17	7.8	600	0.25	0.1	12
MMSZ5248B	18	17.10	18.90	21	7.0	600	0.25	0.1	14
MMSZ5250B	20	19.00	21.00	25	6.2	600	0.25	0.1	15
MMSZ5251B	22	20.90	23.10	29	5.6	600	0.25	0.1	17
MMSZ5252B	24	22.80	25.20	33	5.2	600	0.25	0.1	18
MMSZ5254B	27	25.65	28.35	41	5.0	600	0.25	0.1	21
MMSZ5255B	28	26.60	29.40	44	4.5	600	0.25	0.1	21
MMSZ5256B	30	28.50	31.50	49	4.2	600	0.25	0.1	23
MMSZ5257B	33	31.35	34.65	58	3.8	700	0.25	0.1	25
MMSZ5258B	36	34.20	37.80	70	3.4	700	0.25	0.1	27
MMSZ5259B	39	37.05	40.95	80	3.2	800	0.25	0.1	30

1. Tested with pulses, T<sub>P</sub> < 1.0ms.

Type Number	Zener Voltage Range <sup>1</sup>				Max. Zener Impedance		Typical Temperature Coefficient	Max. Reverse Leakage Current		
	V <sub>Z</sub> @ I <sub>ZT</sub>				Z <sub>ZT</sub> @ I <sub>ZT</sub>			T <sub>C</sub>	I <sub>R</sub> @ V <sub>R</sub>	
	Nom V	Min V	Max V	mA	Ω	mA	% / °C	μA	V	
<b>500mW Zener Diodes / miniMELF</b>										
										
ZMM5225B	3.0	2.85	3.15	20	29	20	-0.075	50	1.0	
ZMM5226B	3.3	3.14	3.47	20	28	20	-0.070	25	1.0	
ZMM5227B	3.6	3.42	3.78	20	24	20	-0.065	15	1.0	
ZMM5228B	3.9	3.71	4.10	20	23	20	-0.060	10	1.0	
ZMM5229B	4.3	4.09	4.52	20	22	20	-0.055	5.0	1.0	
ZMM5230B	4.7	4.47	4.94	20	19	20	±0.030	5.0	2.0	
ZMM5231B	5.1	4.85	5.36	20	17	20	±0.030	5.0	2.0	
ZMM5232B	5.6	5.32	5.88	20	11	20	+0.038	5.0	3.0	
ZMM5233B	6.0	5.70	6.30	20	7.0	20	+0.038	5.0	3.5	
ZMM5234B	6.2	5.89	6.51	20	7.0	20	+0.045	5.0	4.0	
ZMM5235B	6.8	6.46	7.14	20	5.0	20	+0.050	3.0	5.0	
ZMM5236B	7.5	7.13	7.88	20	6.0	20	+0.058	3.0	6.0	
ZMM5237B	8.2	7.79	8.61	20	8.0	20	+0.062	3.0	6.5	
ZMM5238B	8.7	8.27	9.14	20	8.0	20	+0.065	3.0	6.5	
ZMM5239B	9.1	8.65	9.56	20	10	20	+0.068	3.0	7.0	
ZMM5240B	10	9.50	10.50	20	17	20	+0.075	3.0	8.0	
ZMM5241B	11	10.45	11.55	20	22	20	+0.076	2.0	8.4	
ZMM5242B	12	11.40	12.60	20	30	20	+0.077	1.0	9.1	
ZMM5243B	13	12.35	13.65	9.5	13	9.5	+0.079	0.5	9.9	
ZMM5244B	14	13.30	14.70	9.0	15	9.0	+0.082	0.1	10	
ZMM5245B	15	14.24	15.75	8.5	16	8.5	+0.082	0.1	11	
ZMM5246B	16	15.20	16.80	7.8	17	7.8	+0.083	0.1	12	
ZMM5247B	17	16.15	17.85	7.4	19	7.4	+0.084	0.1	13	
ZMM5248B	18	17.10	18.90	7.0	21	7.0	+0.085	0.1	14	
ZMM5249B	19	18.05	19.95	6.6	23	6.6	+0.086	0.1	14	
ZMM5250B	20	19.00	21.00	6.2	25	6.2	+0.086	0.1	15	
ZMM5251B	22	20.90	23.10	5.6	29	5.6	+0.087	0.1	17	
ZMM5252B	24	22.80	25.20	5.2	33	5.2	+0.087	0.1	18	
ZMM5253B	25	23.75	26.25	5.0	35	5.0	+0.089	0.1	19	

1. Tested with pulses, T<sub>p</sub> = 100ms.

Type Number	Zener Voltage Range <sup>1</sup>				Max. Zener Impedance		Typical Temperature Coefficient	Max. Reverse Leakage Current	
	$V_Z @ I_{ZT}$				$Z_{ZT} @ I_{ZT}$			$T_c$	$I_R @ V_R$
	Nom V	Min V	Max V	mA	$\Omega$	mA	% / °C	$\mu A$	V
<b>500mW Zener Diodes / miniMELF (Continued)</b>									
ZMM5254B	27	25.65	28.35	4.6	41	4.6	+0.090	0.1	21
ZMM5255B	28	26.60	29.40	4.5	44	4.5	+0.091	0.1	21
ZMM5256B	30	28.50	31.50	4.2	49	4.2	+0.091	0.1	23
ZMM5257B	33	31.35	34.65	3.8	58	3.8	+0.092	0.1	25
ZMM5258B	36	34.20	37.80	3.4	70	3.4	+0.093	0.1	27
ZMM5259B	39	37.05	40.95	3.2	80	3.2	+0.094	0.1	30
ZMM5260B	43	40.85	45.15	3.0	93	3.0	+0.095	0.1	33
ZMM5261B	47	44.65	49.35	2.7	105	2.7	+0.095	0.1	36
ZMM5262B	51	48.45	53.55	2.5	125	2.5	+0.096	0.1	39
ZMM5263B	56	53.20	58.80	2.2	150	2.2	+0.096	0.1	43
ZMM5264B	60	57.00	63.00	2.1	170	2.1	+0.097	0.1	46
ZMM5265B	62	58.90	65.10	2.0	185	2.0	+0.097	0.1	47
ZMM5266B	68	64.60	71.40	1.8	230	1.8	+0.097	0.1	52
ZMM5267B	75	71.25	78.75	1.7	270	1.7	+0.098	0.1	56

1. Tested with pulses,  $T_p = 100\text{ms}$ .



Type Number	Zener Voltage Range <sup>1</sup>				Max. Zener Impedance		Typical Temperature Coefficient		Max. Reverse Leakage Current	
	$V_Z @ I_{ZT}$				$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK} = 0.25mA$	$T_C$	$I_R @ V_R$		
	Nom V	Min V	Max V	mA	$\Omega$	$\Omega$	% / °C	$\mu A$	V	
<b>500mW Zener Diodes / DO-35</b>										
1N5221B	2.4	2.28	2.52	20	30	1200	-0.085	100	1.0	
1N5222B	2.5	2.38	2.63	20	30	1250	-0.085	100	1.0	
1N5223B	2.7	2.57	2.84	20	30	1300	-0.080	75	1.0	
1N5224B	2.8	2.66	2.94	20	30	1400	-0.080	75	1.0	
1N5225B	3.0	2.85	3.15	20	29	1600	-0.075	50	1.0	
1N5226B	3.3	3.14	3.47	20	28	1600	-0.070	25	1.0	
1N5227B	3.6	3.42	3.78	20	24	1700	-0.065	15	1.0	
1N5228B	3.9	3.71	4.10	20	23	1900	-0.060	10	1.0	
1N5229B	4.3	4.09	4.52	20	22	2000	-0.055	5.0	1.0	
1N5230B	4.7	4.47	4.94	20	19	1900	$\pm 0.030$	5.0	2.0	
1N5231B	5.1	4.85	5.36	20	17	1600	$\pm 0.030$	5.0	2.0	
1N5232B	5.6	5.32	5.88	20	11	1600	+0.038	5.0	3.0	
1N5233B	6.0	5.70	6.30	20	7.0	1600	+0.038	5.0	3.5	
1N5234B	6.2	5.89	6.51	20	7.0	1000	+0.045	5.0	4.0	
1N5235B	6.8	6.46	7.14	20	5.0	750	+0.050	3.0	5.0	
1N5236B	7.5	7.13	7.88	20	6.0	500	+0.058	3.0	6.0	
1N5237B	8.2	7.79	8.61	20	8.0	500	+0.062	3.0	6.5	
1N5238B	8.7	8.27	9.14	20	8.0	600	+0.065	3.0	6.5	
1N5239B	9.1	8.65	9.56	20	10	600	+0.068	3.0	7.0	
1N5240B	10	9.50	10.50	20	17	600	+0.075	3.0	8.0	
1N5241B	11	10.45	11.55	20	22	600	+0.076	2.0	8.4	
1N5242B	12	11.40	12.60	20	30	600	+0.077	1.0	9.1	
1N5243B	13	12.35	13.65	9.5	13	600	+0.079	0.5	9.9	
1N5244B	14	13.30	14.70	9.0	15	600	+0.082	0.1	10	
1N5245B	15	14.25	15.75	8.5	16	600	+0.082	0.1	11	
1N5246B	16	15.20	16.80	7.8	17	600	+0.083	0.1	12	
1N5247B	17	16.15	17.85	7.4	19	600	+0.084	0.1	13	
1N5248B	18	17.10	18.90	7.0	21	600	+0.085	0.1	14	
1N5249B	19	18.05	19.95	6.6	23	600	+0.086	0.1	14	
1N5250B	20	19.00	21.00	6.2	25	600	+0.086	0.1	15	
1N5251B	22	20.90	23.10	5.6	29	600	+0.087	0.1	17	
1N5252B	24	22.80	25.20	5.2	33	600	+0.087	0.1	18	
1N5253B	25	23.75	26.25	5.0	35	600	+0.089	0.1	19	
1N5254B	27	25.65	28.35	4.6	41	600	+0.090	0.1	21	
1N5255B	28	26.60	29.40	4.5	44	600	+0.091	0.1	21	
1N5256B	30	28.50	31.50	4.2	49	600	+0.091	0.1	23	
1N5257B	33	31.35	34.65	3.8	58	700	+0.092	0.1	25	

1. Measured under thermal equilibrium and DC ( $I_{ZT}$ ) test conditions.

Type Number	Zener Voltage Range <sup>1</sup>				Max. Zener Impedance		Typical Temperature Coefficient		Max. Reverse Leakage Current	
	V <sub>Z</sub> @ I <sub>ZT</sub>				I <sub>ZT</sub>	Z <sub>ZK</sub> @ I <sub>ZK</sub> = 0.25mA	T <sub>C</sub>	I <sub>R</sub> @ V <sub>R</sub>		
	Nom V	Min V	Max V	mA	Ω	Ω	% / °C	μA	V	
<b>500mW Zener Diodes / DO-35 (Continued)</b>										
1N5258B	36	34.20	37.80	3.4	70	700	+0.093	0.1	27	
1N5259B	39	37.05	40.95	3.2	80	800	+0.094	0.1	30	
1N5260B	43	40.85	45.15	3.0	93	900	+0.095	0.1	33	
1N5261B	47	44.65	49.35	2.7	105	1000	+0.095	0.1	36	
1N5262B	51	48.45	53.55	2.5	125	1100	+0.096	0.1	39	
1N5263B	56	53.20	58.80	2.2	150	1300	+0.096	0.1	43	
1N5264B	60	57.00	63.00	2.1	170	1400	+0.097	0.1	46	
1N5265B	62	58.90	65.10	2.0	185	1400	+0.097	0.1	47	
1N5266B	68	64.60	71.40	1.8	230	1600	+0.097	0.1	52	
1N5267B	75	71.25	78.75	1.7	270	1700	+0.098	0.1	56	

1. Measured under thermal equilibrium and DC (I<sub>ZT</sub>) test conditions.



Type Number	Zener Voltage Range <sup>1</sup>		Max. Zener Impedance				Max. Reverse Leakage Current		Max. Zener Current <sup>2</sup>
	V <sub>Z</sub> @ I <sub>ZT</sub>		Z <sub>ZT</sub> @ I <sub>ZT</sub>		Z <sub>ZK</sub> @ I <sub>ZK</sub>		I <sub>R</sub> @ V <sub>R</sub>		I <sub>ZM</sub>
	Min V	Max V	Ω	mA	Ω	mA	μA	V	mA
									
<b>1.0W Zener Diodes / SMA</b>									
SMAZ3V3	3.13	3.46	10	100	500	1.0	100	1.0	303
SMAZ3V6	3.42	3.78	9.0	100	500	1.0	100	1.0	278
SMAZ3V9	3.70	4.09	7.5	100	500	1.0	50	1.0	256
SMAZ4V3	4.08	4.51	6.0	100	500	1.0	10	1.0	233
SMAZ4V7	4.46	4.93	5.0	100	500	1.0	5.0	1.0	213
SMAZ5V1	4.84	5.40	5.0	100	500	1.0	2.5	1.0	196
SMAZ5V6	5.32	5.88	2.0	100	250	2.0	5.0	2.0	179
SMAZ6V2	5.89	6.51	2.0	100	200	2.0	5.0	3.0	161
SMAZ6V8	6.46	7.14	2.0	100	200	1.0	5.0	4.0	147
SMAZ7V5	7.13	7.88	2.0	100	450	1.0	5.0	5.0	133
SMAZ8V2	7.79	8.61	2.0	100	200	1.0	5.0	6.0	122
SMAZ9V1	8.65	9.56	4.0	50	200	1.0	5.0	7.0	110
SMAZ10	9.50	10.50	4.0	50	200	1.0	1.0	7.6	100
SMAZ12	11.40	12.60	7.0	50	150	1.0	1.0	9.1	83
SMAZ15	14.25	15.75	10	50	150	1.0	1.0	11.4	67
SMAZ16	15.20	16.80	15	25	150	1.0	0.5	12.2	63
SMAZ18	17.10	18.90	15	25	150	1.0	0.5	13.7	56
SMAZ20	19.00	21.00	15	25	180	1.0	0.5	15.2	50
SMAZ22	20.90	23.10	15	25	180	1.0	0.5	16.7	45
SMAZ24	22.80	25.20	15	25	180	1.0	0.5	18.2	42
SMAZ27	25.65	28.35	15	25	200	1.0	0.5	20.5	37
SMAZ30	28.50	31.50	15	25	250	1.0	0.5	22.8	33
SMAZ33	31.35	34.65	15	25	300	1.0	0.5	25.1	30
SMAZ36	34.20	37.80	40	10	350	1.0	0.5	27.4	28
SMAZ39	37.05	40.95	40	10	450	1.0	0.5	29.6	26

1. Tested with I<sub>ZT</sub> current pulses. Pulse width = 50ms.

2. Device on fiberglass substrate.

Type Number	Zener Voltage Range <sup>1</sup>				Max. Zener Impedance			Max. Reverse Leakage Current		Max. Zener Current
	$V_Z @ I_{ZT}$				$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$		$I_R @ V_R$		$I_{ZM}$
	Nom V	Min V	Max V	mA	$\Omega$	$\Omega$	mA	$\mu A$	V	mA



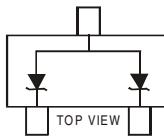
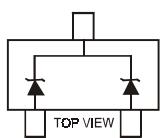
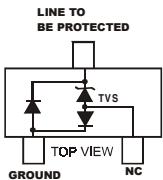
## 1.0W Zener Diodes / DO-41

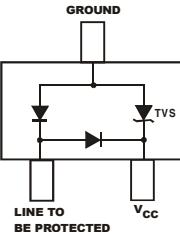
1N4728A	3.3	3.14	3.47	76	10	400	1.0	100	1.0	303
1N4729A	3.6	3.42	3.78	69	10	400	1.0	100	1.0	278
1N4730A	3.9	3.71	4.10	64	9.0	400	1.0	50	1.0	256
1N4731A	4.3	4.09	4.52	58	9.0	400	1.0	10	1.0	233
1N4732A	4.7	4.47	4.94	53	8.0	500	1.0	10	1.0	213
1N4733A	5.1	4.85	5.36	49	7.0	550	1.0	10	1.0	196
1N4734A	5.6	5.32	5.88	45	5.0	600	1.0	10	2.0	178
1N4735A	6.2	5.89	6.51	41	2.0	700	1.0	10	3.0	161
1N4736A	6.8	6.46	7.14	37	3.5	700	1.0	10	4.0	147
1N4737A	7.5	7.13	7.88	34	4.0	700	0.5	10	5.0	133
1N4738A	8.2	7.79	8.61	31	4.5	700	0.5	10	6.0	122
1N4739A	9.1	8.65	9.56	28	5.0	700	0.5	10	7.0	110
1N4740A	10	9.50	10.50	25	7.0	700	0.25	10	7.6	100
1N4741A	11	10.45	11.55	23	8.0	700	0.25	5.0	8.4	91
1N4742A	12	11.40	12.60	21	9.0	700	0.25	5.0	9.1	83
1N4743A	13	12.35	13.65	19	10	700	0.25	5.0	9.9	77
1N4744A	15	14.25	15.75	17	14	700	0.25	5.0	11.4	67
1N4745A	16	15.20	16.80	15.5	16	700	0.25	5.0	12.2	63
1N4746A	18	17.10	18.90	14	20	750	0.25	5.0	13.7	56
1N4747A	20	19.00	21.00	12.5	22	750	0.25	5.0	15.2	50
1N4748A	22	20.90	23.10	11.5	23	750	0.25	5.0	16.7	45
1N4749A	24	22.80	25.20	10.5	25	750	0.25	5.0	18.2	42
1N4750A	27	25.65	28.35	9.5	35	750	0.25	5.0	20.6	37
1N4751A	30	28.50	31.50	8.5	40	1000	0.25	5.0	22.8	33
1N4752A	33	31.35	34.65	7.5	45	1000	0.25	5.0	25.1	30
1N4753A	36	34.20	37.80	7.0	50	1000	0.25	5.0	27.4	28
1N4754A	39	37.05	40.95	6.5	60	1000	0.25	5.0	29.7	26
1N4755A	43	40.85	45.15	6.0	70	1500	0.25	5.0	32.7	23
1N4756A	47	44.65	49.35	5.5	80	1500	0.25	5.0	35.8	21
1N4757A	51	48.45	53.55	5.0	95	1500	0.25	5.0	38.8	19
1N4758A	56	53.20	58.80	4.5	110	2000	0.25	5.0	42.6	18
1N4759A	62	58.90	65.10	4.0	125	2000	0.25	5.0	47.1	16
1N4760A	68	64.60	71.40	3.7	150	2000	0.25	5.0	51.7	15
1N4761A	75	71.25	78.75	3.3	175	2000	0.25	5.0	56.0	13

1. Measured under thermal equilibrium and DC ( $I_{ZT}$ ) test conditions. Standard voltage tolerance is 5%.



# Transient Voltage Suppressors & Thyristor Surge Protectors

Type Number	$V_{RWM}$	$V_{BR} @ I_T$ (Note 1)			$I_R @ V_{RWM}$	$V_C @ I_{PP}$ (Note 2)		Pin-out Config.
		Min.	Max.	$I_T$		Max.		
		V	V	mA	$\mu A$	V	A	
<b>24W Peak Power Dual Transient Voltage Suppressors (Common Anode) / SOT-23</b>								
MMBZ5V6AL NEW	3	5.32	5.88	20	5.0	8.0	3.0	Fig. 1
MMBZ6V8AL NEW	4.5	6.46	7.14	1.0	0.5	9.6	2.5	Fig. 1
MMBZ9V1AL NEW	6.0	8.65	9.65	1.0	0.3	14	1.7	Fig. 1
MMBZ10VAL NEW	6.5	9.50	10.5	1.0	0.3	14.2	1.7	Fig. 1
<b>40W Peak Power Dual Transient Voltage Suppressors (Common Anode) / SOT-23</b>								
MMBZ15VAL NEW	12	14.25	15.75	1.0	.05	21	1.9	Fig. 1
MMBZ18VAL NEW	14.5	17.10	18.90	1.0	.05	25	1.6	Fig. 1
MMBZ20VAL NEW	17	19.00	21.00	1.0	.05	28	1.4	Fig. 1
MMBZ27VAL NEW	22	25.65	28.35	1.0	.05	40	1.0	Fig. 1
MMBZ33VAL NEW	26	31.35	34.65	1.0	.05	46	0.87	Fig. 1
<b>40W Peak Power Dual Transient Voltage Suppressors (Common Cathode) / SOT-23</b>								
MMBZ15VDL NEW	12.8	15	15.8	1.0	.10	21.2	1.9	Fig. 2
MMBZ27VCL NEW	22	25.65	27	1.0	.05	38	1.0	Fig. 2
1. $V_{BR}$ measured at pulse current $I_T$ at an ambient temperature of 25 degrees C. 2. Non-repetitive current pulse, $T_p = 10 \times 1000\mu s$ .								
Type Number	$V_{RWM}$	$V_{BR} @ I_T$			Max. Reverse Leakage @ $V_{RWM}$	Max. Clamping Voltage @ $I_{PP} = 1A$ (Note 3)	Max. Peak Pulse Current (Note 1)	Typical Junction Capacitance (Note 2)
		Min.	Max.	$I_T$				
		V	V	mA	$I_R (\mu A)$	$V_C (V)$	(A)	(pF)
<b>300W Peak Power* Low Capacitance Transient Voltage Suppressor / SOT-23</b>								
DLP05LC NEW	5	6.0	—	1.0	20	11.0	17	1.6
1. $t_p = 8 \times 20 \mu s$ . 2. $V_R = 0V$ , $f = 1MHz$ . 3. Clamping voltage value is based on an $8 \times 20 \mu s$ peak pulse current ( $I_{PP}$ ) waveform. * Peak Power rating based on an $8 \times 20 \mu s$ peak pulse current ( $I_{PP}$ ) waveform.								
 Figure 1			 Figure 2			 Figure 3		

Type Number	$V_{RWM}$	$V_{BR} @ I_T$			Max. Peak Forward Voltage @ $I_{PP} = 1A$ (Note 1)	Max. Reverse Leakage @ $V_{RWM}$	Max. Clamping Voltage @ $I_{PP} = 1A$ (Note 2)	Max. Peak Pulse Current (Note 2)	Pin-out Config.
		Min.	Max.	$I_T$					
		V	V	mA					
DLPT05 <small>NEW</small>	5	6.0	—	1.0	2.1	20	9.8	17	Fig. 4
1. $t_p = 8 \times 20 \mu s$ . 2. Clamping voltage value is based on an $8 \times 20 \mu s$ peak pulse current ( $I_{PP}$ ) waveform. * Peak Power rating based on an $8 \times 20 \mu s$ peak pulse current ( $I_{PP}$ ) waveform.									
									

Type Number <sup>1</sup>	$V_{RWM}$	$V_{BR} @ I_T$ (Note 1)			$I_R @ V_{RWM}$	$V_C @ I_{PP}$	
		Min.	Max.	$I_T$			
		V	V	mA	$\mu A$	V	A

#### 400W Transient Voltage Suppressors / SMA

SMAJ5.0(C)A	5.0	6.40	7.00	10	800/1600	9.2	43.5
SMAJ6.0(C)A	6.0	6.67	7.37	10	800/1600	10.3	38.8
SMAJ6.5(C)A	6.5	7.22	7.98	10	500/1000	11.2	35.7
SMAJ7.0(C)A	7.0	7.78	8.60	10	200/400	12.0	33.3
SMAJ7.5(C)A	7.5	8.33	9.21	1.0	100/200	12.9	31.0
SMAJ8.0(C)A	8.0	8.89	9.83	1.0	50/100	13.6	29.4
SMAJ8.5(C)A	8.5	9.44	10.4	1.0	10/20	14.4	27.7
SMAJ9.0(C)A	9.0	10.0	11.1	1.0	5/10	15.4	26.0
SMAJ10(C)A	10	11.1	12.3	1.0	5/10	17.0	23.5
SMAJ11(C)A	11	12.2	13.5	1.0	5.0	18.2	22.0
SMAJ12(C)A	12	13.3	14.7	1.0	5.0	19.9	20.1
SMAJ13(C)A	13	14.4	15.9	1.0	5.0	21.5	18.6
SMAJ14(C)A	14	15.6	17.2	1.0	5.0	23.2	17.2
SMAJ15(C)A	15	16.7	18.5	1.0	5.0	24.4	16.4
SMAJ16(C)A	16	17.8	19.7	1.0	5.0	26.0	15.3
SMAJ17(C)A	17	18.9	20.9	1.0	5.0	27.6	14.5
SMAJ51(C)A	51	56.7	62.7	1.0	5.0	82.4	4.9
SMAJ54(C)A	54	60.0	66.3	1.0	5.0	87.1	4.6
SMAJ58(C)A	58	64.4	71.2	1.0	5.0	93.6	4.3
SMAJ60(C)A	60	66.7	73.7	1.0	5.0	96.8	4.1
SMAJ64(C)A	64	71.1	78.6	1.0	5.0	103	3.9
SMAJ70(C)A	70	77.8	86.0	1.0	5.0	113	3.5
SMAJ75(C)A	75	83.3	92.1	1.0	5.0	121	3.3
SMAJ78(C)A	78	86.7	95.8	1.0	5.0	126	2.2
SMAJ85(C)A	85	94.4	104.0	1.0	5.0	137	2.9
SMAJ90(C)A	90	100.0	111.0	1.0	5.0	146	2.7
SMAJ100(C)A	100	111.0	123.0	1.0	5.0	162	2.5
SMAJ110(C)A	110	122.0	135.0	1.0	5.0	177	2.3
SMAJ120(C)A	120	133.0	147.0	1.0	5.0	193	2.0
SMAJ130(C)A	130	144.0	159.0	1.0	5.0	209	1.9
SMAJ150(C)A	150	167.0	185.0	1.0	5.0	243	1.6
SMAJ160(C)A	160	178.0	197.0	1.0	5.0	259	1.5
SMAJ170(C)A	170	189.0	209.0	1.0	5.0	275	1.4

#### 400W Transient Voltage Suppressors / SMA

SMAT70A NEW	70	77.8	89.5	1.0	5.0	100	3.5
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1. 'C' suffix denotes bi-directional device.

2.  $V_{BR}$  measured with  $I_T$  current pulse = 300 $\mu s$ .

Type Number <sup>1</sup>	$V_{RWM}$	$V_{BR} @ I_T$ (Note 2)			$I_R @ V_{RWM}$	$V_C @ I_{PP}$	
		Min.	Max.	$I_T$	Max.		
		V	V	mA	$\mu A$	V	A
<b>500W Transient Voltage Suppressors / DO-15</b>							
SA5.0(C)A	5.0	6.40	7.00	10	600/1200	9.2	54.3
SA6.0(C)A	6.0	6.67	7.37	10	600/1200	10.3	48.5
SA6.5(C)A	6.5	7.22	7.98	10	400/800	11.2	44.7
SA7.0(C)A	7.0	7.78	8.60	10	150/300	12.0	41.7
SA7.5(C)A	7.5	8.33	9.21	1.0	50/100	12.9	38.8
SA8.0(C)A	8.0	8.89	9.83	1.0	25/50	13.6	36.7
SA8.5(C)A	8.5	9.44	10.4	1.0	10/20	14.4	34.7
SA9.0(C)A	9.0	10.0	11.1	1.0	5.0/10	15.4	32.5
SA10(C)A	10	11.1	12.3	1.0	3.0/6.0	17.0	29.4
SA11(C)A	11	12.2	13.5	1.0	3.0	18.2	27.4
SA12(C)A	12	13.3	14.7	1.0	3.0	19.9	25.1
SA13(C)A	13	14.4	15.9	1.0	3.0	21.5	23.2
SA14(C)A	14	15.6	17.2	1.0	3.0	23.2	21.5
SA15(C)A	15	16.7	18.5	1.0	3.0	24.4	20.6
SA16(C)A	16	17.8	19.7	1.0	3.0	26.0	19.2
SA17(C)A	17	18.9	20.9	1.0	3.0	27.6	18.1
SA18(C)A	18	20.0	22.1	1.0	3.0	29.2	17.2
SA20(C)A	20	22.2	24.5	1.0	3.0	32.4	15.4
SA22(C)A	22	24.4	26.9	1.0	3.0	35.5	14.1
SA24(C)A	24	26.7	29.5	1.0	3.0	38.9	12.8
SA26(C)A	26	28.9	31.9	1.0	3.0	42.1	11.9
SA28(C)A	28	31.1	34.4	1.0	3.0	45.4	11.0
SA30(C)A	30	33.3	36.8	1.0	3.0	48.4	10.3
SA33(C)A	33	36.7	40.6	1.0	3.0	53.3	9.4
SA36(C)A	36	40.0	44.2	1.0	3.0	58.1	8.6
SA40(C)A	40	44.4	49.1	1.0	3.0	64.5	7.8
SA43(C)A	43	47.8	52.8	1.0	3.0	69.4	7.2
SA45(C)A	45	50.0	55.3	1.0	3.0	72.7	6.9
SA48(C)A	48	53.3	58.9	1.0	3.0	77.4	6.5
SA51(C)A	51	56.7	62.7	1.0	3.0	82.4	6.1
SA54(C)A	54	60.0	66.3	1.0	3.0	87.1	5.7
SA58(C)A	58	64.4	71.2	1.0	3.0	93.6	5.3
SA60(C)A	60	66.7	73.7	1.0	3.0	96.8	5.2
SA64(C)A	64	71.1	78.6	1.0	3.0	103.0	4.9
SA70(C)A	70	77.8	86.0	1.0	3.0	113.0	4.4
SA75(C)A	75	83.3	92.1	1.0	3.0	121.0	4.1
SA78(C)A	78	86.7	95.8	1.0	3.0	126.0	4.0
SA85(C)A	85	94.4	104.0	1.0	3.0	137.0	3.6
SA90(C)A	90	100.0	111.0	1.0	3.0	146.0	3.4

1. 'C' suffix denotes bi-directional device.

2.  $V_{BR}$  measured with  $I_T$  current pulse = 300 $\mu s$ .

3. Type number marking may contain a "V" or dash in place of decimal point.



Type Number <sup>1</sup>	$V_{RWM}$	$V_{BR} @ I_T$ (Note 2)			$I_R @ V_{RWM}$	$V_C @ I_{PP}$	
		Min.	Max.	$I_T$			
		V	V	mA		$\mu A$	V

### 500W Transient Voltage Suppressors / DO-15 (continued)



SA100(C)A	100	111.0	123.0	1.0	3.0	162.0	3.1
SA110(C)A	110	122.0	135.0	1.0	3.0	177.0	2.8
SA120(C)A	120	133.0	147.0	1.0	3.0	193.0	2.6
SA130(C)A	130	144.0	159.0	1.0	3.0	209.0	2.4
SA150(C)A	150	167.0	185.0	1.0	3.0	243.0	2.1
SA160(C)A	160	178.0	197.0	1.0	3.0	259.0	1.9
SA170(C)A	170	189.0	209.0	1.0	3.0	275.0	1.8

1. 'C' suffix denotes bi-directional device.

2.  $V_{BR}$  measured with  $I_T$  current pulse = 300μs.

3. Type number marking may contain a "V" or dash in place of decimal point.

### 600W Transient Voltage Suppressors / SMB



SMBJ5.0(C)A	5.0	6.40	7.23	10	800/1600	9.2	65.2
SMBJ6.0(C)A	6.0	6.67	7.67	10	800/1600	10.3	58.3
SMBJ6.5(C)A	6.5	7.22	8.30	10	500/1000	11.2	53.6
SMBJ7.0(C)A	7.0	7.78	8.95	10	200/400	12.0	50.0
SMBJ7.5(C)A	7.5	8.33	9.58	1.0	100/200	12.9	46.5
SMBJ8.0(C)A	8.0	8.89	10.23	1.0	50/100	13.6	44.1
SMBJ8.5(C)A	8.5	9.44	10.82	1.0	10/20	14.4	41.7
SMBJ9.0(C)A	9.0	10.00	11.50	1.0	5.0/10	15.4	39.0
SMBJ10(C)A	10.0	11.10	12.80	1.0	5.0/10	17.0	35.3
SMBJ11(C)A	11.0	12.20	14.40	1.0	5.0	18.2	33.0
SMBJ12(C)A	12.0	13.30	15.30	1.0	5.0	19.9	30.2
SMBJ13(C)A	13.0	14.40	16.50	1.0	5.0	21.5	27.9
SMBJ14(C)A	14.0	15.60	17.90	1.0	5.0	23.2	25.8
SMBJ15(C)A	15.0	16.70	19.20	1.0	5.0	24.4	24.0
SMBJ16(C)A	16.0	17.80	20.50	1.0	5.0	26.0	23.1
SMBJ17(C)A	17.0	18.90	21.70	1.0	5.0	27.6	21.7

1. 'C' suffix denotes bi-directional device.

2.  $V_{BR}$  measured with  $I_T$  current pulse = 300μs.

Type Number <sup>1</sup>	$V_{RWM}$	$V_{BR} @ I_T$ (Note 2)			$I_R @ V_{RWM}$	$V_C @ I_{PP}$
		Min.	Max.	$I_T$	Max.	
		V	V	mA	$\mu A$	V



### 600W Transient Voltage Suppressors / SMB (continued)

SMBJ18(C)A	18.0	20.00	23.30	1.0	5.0	29.2	20.5
SMBJ20(C)A	20.0	22.20	25.50	1.0	5.0	32.4	18.5
SMBJ22(C)A	22.0	24.40	28.00	1.0	5.0	35.5	16.9
SMBJ24(C)A	24.0	26.70	30.70	1.0	5.0	38.9	15.4
SMBJ26(C)A	26.0	28.90	33.20	1.0	5.0	42.1	14.2
SMBJ28(C)A	28.0	31.10	35.80	1.0	5.0	45.4	13.2
SMBJ30(C)A	30.0	33.30	38.30	1.0	5.0	48.4	12.4
SMBJ33(C)A	33.0	36.70	42.20	1.0	5.0	53.3	11.3
SMBJ36(C)A	36.0	40.00	46.00	1.0	5.0	58.1	10.3
SMBJ40(C)A	40.0	44.40	51.10	1.0	5.0	64.5	9.3
SMBJ43(C)A	43.0	47.80	54.90	1.0	5.0	69.4	8.6
SMBJ45(C)A	45.0	50.00	57.50	1.0	5.0	72.7	8.3
SMBJ48(C)A	48.0	53.30	61.30	1.0	5.0	77.4	7.7
SMBJ51(C)A	51.0	56.70	65.20	1.0	5.0	82.4	7.3
SMBJ54(C)A	54.0	60.00	69.00	1.0	5.0	87.1	6.9
SMBJ58(C)A	58.0	64.40	74.60	1.0	5.0	93.6	6.4
SMBJ60(C)A	60.0	66.70	76.70	1.0	5.0	96.8	6.2
SMBJ64(C)A	64.0	71.10	81.80	1.0	5.0	103.0	5.8
SMBJ70(C)A	70.0	77.80	89.50	1.0	5.0	113.0	5.3
SMBJ75(C)A	75.0	83.30	95.80	1.0	5.0	121.0	4.9
SMBJ78(C)A	78.0	86.70	99.70	1.0	5.0	126.0	4.7
SMBJ85(C)A	85.0	94.40	108.20	1.0	5.0	137.0	4.4
SMBJ120(C)A	120.0	133.00	153.00	1.0	5.0	193.0	3.1
SMBJ90(C)A	90.0	100.00	115.50	1.0	5.0	146.0	4.1
SMBJ100(C)A	100.0	111.00	128.00	1.0	5.0	162.0	3.7
SMBJ110(C)A	110.0	122.00	140.00	1.0	5.0	177.0	3.4
SMBJ130(C)A	130.0	144.00	165.50	1.0	5.0	209.0	2.9
SMBJ150(C)A	150.0	167.00	192.50	1.0	5.0	243.0	2.5
SMBJ160(C)A	160.0	178.00	205.00	1.0	5.0	259.0	2.3
SMBJ170(C)A	170.0	189.00	217.50	1.0	5.0	275.0	2.2



### 600W Transient Voltage Suppressors / SMB

NEW

SMBT70A NEW	70	77.8	89.5	1.0	5.0	100	5.3
1. 'C' suffix denotes bi-directional device.							
2. $V_{BR}$ measured with $I_T$ current pulse = 300 $\mu s$ .							

Type Number	$V_{RWM}$	$V_{BR} @ I_T$ (Note 1)			$I_R @ V_{RWM}$ UNI- / BI-	$V_C @ I_{PP}$	
		Min.	Max.	$I_T$			
		V	V	mA		$\mu A$	V
<b>600W Transient Voltage Suppressors / DO-15</b>							
P6KE6.8(C)A	5.80	6.45	7.14	10	1000/2000	10.5	57.00
P6KE7.5(C)A	6.40	7.13	7.88	10	500/1000	11.3	53.00
P6KE8.2(C)A	7.02	7.79	8.61	10	200/400	12.1	50.00
P6KE9.1(C)A	7.78	8.65	9.55	1.0	50/100	13.4	45.00
P6KE10(C)A	8.55	9.50	10.50	1.0	10/20	14.5	41.00
P6KE11(C)A	9.40	10.50	11.60	1.0	5.0	15.6	38.00
P6KE12(C)A	10.20	11.40	12.60	1.0	5.0	16.7	36.00
P6KE13(C)A	11.10	12.40	13.70	1.0	5.0	18.2	33.00
P6KE15(C)A	12.80	14.30	15.80	1.0	5.0	21.2	28.00
P6KE16(C)A	13.60	15.20	16.80	1.0	5.0	22.5	27.00
P6KE18(C)A	15.30	17.10	18.90	1.0	5.0	25.2	24.00
P6KE20(C)A	17.10	19.00	21.00	1.0	5.0	27.7	22.00
P6KE22(C)A	18.80	20.90	23.10	1.0	5.0	30.6	20.00
P6KE24(C)A	20.50	22.80	25.20	1.0	5.0	33.2	18.00
P6KE27(C)A	23.10	25.70	28.40	1.0	5.0	37.5	16.00
P6KE30(C)A	25.60	28.50	31.50	1.0	5.0	41.4	14.40
P6KE33(C)A	28.20	31.40	34.70	1.0	5.0	45.7	13.20
P6KE36(C)A	30.80	34.20	37.80	1.0	5.0	49.9	12.00
P6KE39(C)A	33.30	37.10	41.00	1.0	5.0	53.9	11.20
P6KE43(C)A	36.80	40.90	45.20	1.0	5.0	59.3	10.10
P6KE47(C)A	40.20	44.70	49.40	1.0	5.0	64.8	9.30
P6KE51(C)A	43.60	48.50	53.60	1.0	5.0	70.1	8.60
P6KE56(C)A	47.80	53.20	58.80	1.0	5.0	77.0	7.80
P6KE62(C)A	53.00	58.90	65.10	1.0	5.0	85.0	7.10
P6KE68(C)A	58.10	64.60	71.40	1.0	5.0	92.0	6.50
P6KE75(C)A	64.10	71.30	78.80	1.0	5.0	103.0	5.80
P6KE82(C)A	70.10	77.90	86.10	1.0	5.0	113.0	5.30
P6KE91(C)A	77.80	86.50	95.50	1.0	5.0	125.0	4.80
P6KE100(C)A	85.50	95.00	105.0	1.0	5.0	137.0	4.40
P6KE110(C)A	94.00	105.0	116.0	1.0	5.0	152.0	4.00



Type Number	$V_{RWM}$	$V_{BR} @ I_T$ (Note 1)			$I_R @ V_{RWM}$	$V_C @ I_{PP}$	
		Min.	Max.	$I_T$	UNI- / BI-		
	$V$	$V$	$mA$	$\mu A$	$V$	A	

### 600W Transient Voltage Suppressors / DO-15 (continued)



P6KE120(C)A	102.00	114.0	126.0	1.0	5.0	165.0	3.60
P6KE130(C)A	111.00	124.0	137.0	1.0	5.0	179.0	3.30
P6KE150(C)A	128.00	143.0	158.0	1.0	5.0	207.0	2.90
P6KE160(C)A	136.00	152.0	168.0	1.0	5.0	219.0	2.70
P6KE170(C)A	145.00	162.0	179.0	1.0	5.0	234.0	2.60
P6KE180(C)A	154.00	171.0	189.0	1.0	5.0	246.0	2.40
P6KE200(C)A	171.00	190.0	210.0	1.0	5.0	274.0	2.20
P6KE220(C)A	185.00	209.0	231.0	1.0	5.0	328.0	1.83
P6KE250(C)A	214.00	237.0	263.0	1.0	5.0	344.0	1.75
P6KE300(C)A	256.0	285.0	315.0	1.0	5.0	414.0	1.45
P6KE350(C)A	300.0	332.0	368.0	1.0	5.0	482.0	1.25
P6KE400(C)A	342.0	380.0	420.0	1.0	5.0	548.0	1.10

1. 'C' suffix denotes bi-directional device.

2. Type number marking may contain a 'V' or dash in place of a decimal point.

### 1500W Transient Voltage Suppressors / SMC



SMCJ5.0(C)A	5.0	6.40	7.25	10	1000/2000	9.2	163.0
SMCJ6.0(C)A	6.0	6.67	7.67	10	1000/2000	10.3	145.6
SMCJ6.5(C)A	6.5	7.22	8.30	10	500/1000	11.2	133.9
SMCJ7.0(C)A	7.0	7.78	8.95	10	200/400	12.0	125.0
SMCJ7.5(C)A	7.5	8.33	9.58	1.0	100/200	12.9	116.3
SMCJ8.0(C)A	8.0	8.89	10.23	1.0	50/100	13.6	110.3
SMCJ8.5(C)A	8.5	9.44	10.82	1.0	20/40	14.4	104.2
SMCJ9.0(C)A	9.0	10.00	11.50	1.0	10/20	15.4	97.4
SMCJ10(C)A	10.0	11.10	12.80	1.0	5/10	17.0	88.2
SMCJ11(C)A	11.0	12.20	14.40	1.0	5.0	18.2	82.4
SMCJ12(C)A	12.0	13.30	15.30	1.0	5.0	19.9	75.3
SMCJ13(C)A	13.0	14.40	16.50	1.0	5.0	21.5	69.7
SMCJ14(C)A	14.0	15.60	17.90	1.0	5.0	23.2	64.7
SMCJ15(C)A	15.0	16.70	19.20	1.0	5.0	24.4	61.5
SMCJ16(C)A	16.0	17.80	20.50	1.0	5.0	26.0	57.7
SMCJ17(C)A	17.0	18.90	21.70	1.0	5.0	27.6	53.3
SMCJ18(C)A	18.0	20.00	23.30	1.0	5.0	29.2	51.4
SMCJ20(C)A	20.0	22.20	25.50	1.0	5.0	32.4	46.3
SMCJ22(C)A	22.0	24.40	28.00	1.0	5.0	35.5	42.2

1. 'C' suffix denotes bi-directional device.

2.  $V_{BR}$  measured with  $I_T$  current pulse = 300μs.

Type Number <sup>1</sup>	V <sub>RWM</sub>	V <sub>BR</sub> @ I <sub>T</sub> (Note 2)			I <sub>R</sub> @ V <sub>RWM</sub> UNI- / BI-	V <sub>C</sub> @ I <sub>PP</sub>	
		Min.	Max.	I <sub>T</sub>			
		V	V	mA		μA	V
<b>1500W Transient Voltage Suppressors / SMC (Continued)</b>							
SMCJ24(C)A	24.0	26.70	30.70	1.0	5.0	38.9	38.6
SMCJ26(C)A	26.0	28.90	33.20	1.0	5.0	42.1	35.6
SMCJ28(C)A	28.0	31.10	35.80	1.0	5.0	45.4	33.0
SMCJ30(C)A	30.0	33.30	38.30	1.0	5.0	48.4	31.0
SMCJ33(C)A	33.0	36.70	42.20	1.0	5.0	53.3	28.1
SMCJ36(C)A	36.0	40.00	46.00	1.0	5.0	58.1	25.8
SMCJ40(C)A	40.0	44.40	51.10	1.0	5.0	64.5	23.2
SMCJ43(C)A	43.0	47.80	54.90	1.0	5.0	69.4	21.6
SMCJ45(C)A	45.0	50.00	57.50	1.0	5.0	72.7	20.6
SMCJ48(C)A	48.0	53.30	61.30	1.0	5.0	77.4	19.4
SMCJ51(C)A	51.0	56.70	65.20	1.0	5.0	82.4	18.2
SMCJ54(C)A	54.0	60.00	69.00	1.0	5.0	87.1	17.2
SMCJ58(C)A	58.0	64.40	74.60	1.0	5.0	93.6	16.0
SMCJ60(C)A	60.0	66.70	76.70	1.0	5.0	96.8	15.5
SMCJ64(C)A	64.0	71.10	81.80	1.0	5.0	103.0	14.6
SMCJ70(C)A	70.0	77.80	89.50	1.0	5.0	113.0	13.3
SMCJ75(C)A	75.0	83.30	95.80	1.0	5.0	121.0	12.4
SMCJ78(C)A	78.0	86.70	99.70	1.0	5.0	126.0	11.4
SMCJ85(C)A	85.0	94.40	108.2	1.0	5.0	137.0	10.4
SMCJ90(C)A	90.0	100.0	115.5	1.0	5.0	146.0	10.3
SMCJ100(C)A	100.0	111.0	128.0	1.0	5.0	162.0	9.3
SMCJ110(C)A	110.0	122.0	140.5	1.0	5.0	177.0	8.4
SMCJ120(C)A	120.0	133.0	153.0	1.0	5.0	193.0	7.9
SMCJ130(C)A	130.0	144.0	165.5	1.0	5.0	209.0	7.2
SMCJ150(C)A	150.0	167.0	192.5	1.0	5.0	243.0	6.2
SMCJ160(C)A	160.0	178.0	205.0	1.0	5.0	259.0	5.8
SMCJ170(C)A	170.0	189.0	217.5	1.0	5.0	275.0	5.5

1. 'C' suffix denotes bi-directional device.

2. V<sub>BR</sub> measured with I<sub>T</sub> current pulse = 300μs.

### 1500W Transient Voltage Suppressors / DO-201AD



1.5KE6.8(C)A	5.80	6.45	7.14	10	1000/2000	10.5	143.0
1.5KE7.5(C)A	6.40	7.13	7.88	10	500/1000	11.3	132.0
1.5KE8.2(C)A	7.02	7.79	8.61	10	200/400	12.1	124.0
1.5KE9.1(C)A	7.78	8.65	9.55	1.0	50/100	13.4	112.0
1.5KE10(C)A	8.55	9.50	10.50	1.0	10/20	14.5	103.0
1.5KE11(C)A	9.40	10.50	11.60	1.0	5.0	15.6	96.0
1.5KE12(C)A	10.20	11.40	12.60	1.0	5.0	16.7	90.0
1.5KE13(C)A	11.10	12.40	13.70	1.0	5.0	18.2	82.0

1. 'C' suffix denotes bi-directional device.

2. Type number marking may contain a 'V' or dash in place of a decimal point.

Type Number <sup>1</sup>	V <sub>RWM</sub>	V <sub>BR</sub> @ I <sub>T</sub> (Note 2)			I <sub>R</sub> @ V <sub>RWM</sub>	V <sub>C</sub> @ I <sub>PP</sub>	
		Min.	Max.	I <sub>T</sub>	UNI- / BI-		
	V	V	V	mA	μA	V	A
<b>1500W Transient Voltage Suppressors / DO-201AD (Continued)</b>							
1.5KE15(C)A	12.80	14.30	15.80	1.0	5.0	21.2	71.0
1.5KE16(C)A	13.60	15.20	16.80	1.0	5.0	22.5	67.0
1.5KE18(C)A	15.30	17.10	18.90	1.0	5.0	25.2	59.5
1.5KE20(C)A	17.10	19.00	21.00	1.0	5.0	27.7	54.0
1.5KE22(C)A	18.80	20.90	23.10	1.0	5.0	30.6	49.0
1.5KE24(C)A	20.50	22.80	25.20	1.0	5.0	33.2	45.0
1.5KE27(C)A	23.10	25.70	28.40	1.0	5.0	37.5	40.0
1.5KE30(C)A	25.60	28.50	31.50	1.0	5.0	41.4	36.0
1.5KE33(C)A	28.20	31.40	34.70	1.0	5.0	45.7	33.0
1.5KE36(C)A	30.80	34.20	37.80	1.0	5.0	49.9	30.0
1.5KE39(C)A	33.30	37.10	41.00	1.0	5.0	53.9	28.0
1.5KE43(C)A	36.80	40.90	45.20	1.0	5.0	59.3	25.3
1.5KE47(C)A	40.20	44.70	49.40	1.0	5.0	64.8	23.2
1.5KE51(C)A	43.60	48.50	53.60	1.0	5.0	70.1	21.4
1.5KE56(C)A	47.80	53.20	58.80	1.0	5.0	77.0	19.5
1.5KE62(C)A	53.00	58.90	65.10	1.0	5.0	85.0	17.7
1.5KE68(C)A	58.10	64.60	71.40	1.0	5.0	92.0	16.3
1.5KE75(C)A	64.10	71.30	78.80	1.0	5.0	103.0	14.6
1.5KE82(C)A	70.10	77.90	86.10	1.0	5.0	113.0	13.3
1.5KE91(C)A	77.80	86.50	95.50	1.0	5.0	125.0	12.0
1.5KE100(C)A	85.50	95.00	105.0	1.0	5.0	137.0	11.0
1.5KE110(C)A	94.00	105.0	116.0	1.0	5.0	152.0	9.9
1.5KE120(C)A	102.0	114.0	126.0	1.0	5.0	165.0	9.1
1.5KE130(C)A	111.0	124.0	137.0	1.0	5.0	179.0	8.4
1.5KE150(C)A	128.0	143.0	158.0	1.0	5.0	207.0	7.2
1.5KE160(C)A	136.0	152.0	168.0	1.0	5.0	219.0	6.8
1.5KE170(C)A	145.0	162.0	179.0	1.0	5.0	234.0	6.4
1.5KE180(C)A	154.0	171.0	189.0	1.0	5.0	246.0	6.1
1.5KE200(C)A	171.0	190.0	210.0	1.0	5.0	274.0	5.5
1.5KE220(C)A	185.0	209.0	231.0	1.0	5.0	328.0	4.6
1.5KE250(C)A	214.0	237.0	263.0	1.0	5.0	344.0	5.0
1.5KE300(C)A	256.0	285.0	315.0	1.0	5.0	414.0	5.0
1.5KE350(C)A	300.0	332.0	368.0	1.0	5.0	482.0	4.0
1.5KE400(C)A	342.0	380.0	420.0	1.0	5.0	548.0	4.0

1. 'C' suffix denotes bi-directional device.

2. Type number marking may contain a 'V' or dash in place of a decimal point.



**NEW**

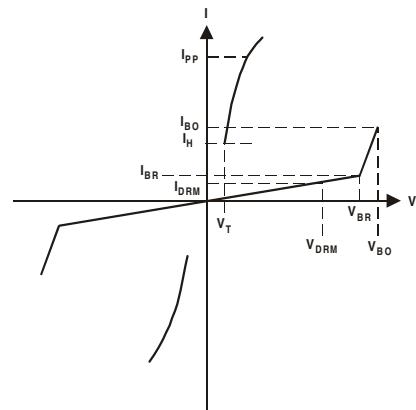
## Thyristor Surge Protection Devices

Diodes Inc.'s new surge protection device, TSPD, also known as a SIDAC, is offered in three surge rating series: 30A, 50A, and 100A.

In the compact SMB package, the TPSD offers transient protection by switching to a low-voltage-on-state when the breakdown voltage is reached in either direction.

TSPDs are breakdown triggered crowbar protection devices that turn off when the surge current falls below the holding current value.

TSPDs are designed to prevent damage to sensitive circuits from over voltage transients; and to meet various regulatory requirements such as GF1089-CORE, ITU-T-K20/21 and FCC Part 68.



TSPD V-I Characteristics

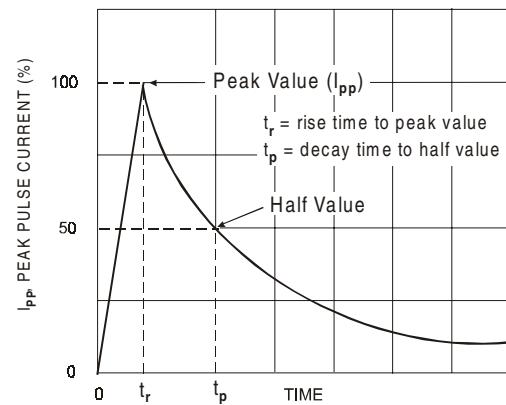
Type Number	Rated Repetitive Off-State Voltage	Off-State Leakage Current @ $V_{DRM}$	Breakover Voltage	On-State Voltage @ $I_T = 1A$	Breakover Current $I_{BO}$		Holding Current $I_H$		Off-State Capacitance
	$V_{DRM}$ (V)	$I_{DRM}$ ( $\mu$ A)	$V_{BO}$ (V)	$V_T$ (V)	Min (mA)	Max (mA)	Min (mA)	Max (mA)	$C_O$ (pF)

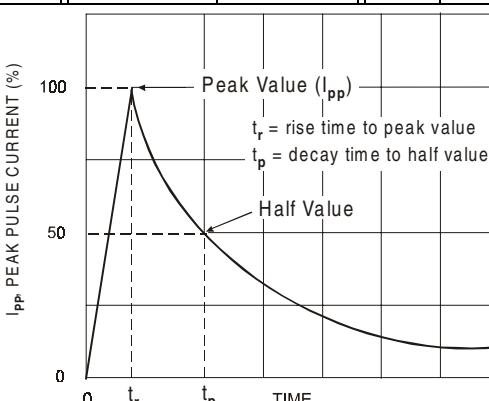
### 30A Bidirectional Thyristor Surge Protection Device / SMB

**NEW**

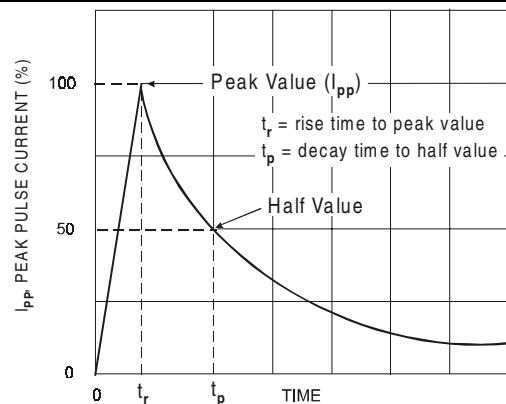
TB640L <i>NEW</i>	58	5	77	3.5	50	800	150	800	100
TB720L <i>NEW</i>	65	5	88	3.5	50	800	150	800	100
TB900L <i>NEW</i>	75	5	98	3.5	50	800	150	800	100
TB1100L <i>NEW</i>	90	5	130	3.5	50	800	150	800	60
TB1300L <i>NEW</i>	120	5	160	3.5	50	800	150	800	60
TB1500L <i>NEW</i>	140	5	180	3.5	50	800	150	800	60
TB1800L <i>NEW</i>	160	5	220	3.5	50	800	150	800	60
TB2300L <i>NEW</i>	190	5	265	3.5	50	800	150	800	40
TB2600L <i>NEW</i>	220	5	300	3.5	50	800	150	800	40
TB3100L <i>NEW</i>	275	5	350	3.5	50	800	150	800	40
TB3500L <i>NEW</i>	320	5	400	3.5	50	800	150	800	40

Waveform $t_r/t_p$	Standard	$I_{pp}$ (A)
2/10 $\mu$ s	GR-1089-CORE	200
8/20 $\mu$ s	IEC 61000-4-5	150
10/160 $\mu$ s	FCC Part 68	100
10/700 $\mu$ s	ITU-T, K20/21	60
10/560 $\mu$ s	FCC Part 68	50
10/1000 $\mu$ s	GR-1089-CORE	30



Type Number	Rated Repetitive Off-State Voltage	Off-State Leakage Current @ $V_{DRM}$	Breakover Voltage	On-State Voltage @ $I_T = 1A$	Breakover Current $I_{BO}$		Holding Current $I_H$		Off-State Capacitance
	$V_{DRM}$ (V)	$I_{DRM}$ ( $\mu A$ )	$V_{BO}$ (V)	$V_T$ (V)	Min (mA)	Max (mA)	Min (mA)	Max (mA)	$C_O$ (pF)
<b>50A Bidirectional Thyristor Surge Protection Device / SMB</b> 									
TB640M NEW	58	5	77	3.5	50	800	150	800	140
TB720M NEW	65	5	88	3.5	50	800	150	800	140
TB900M NEW	75	5	98	3.5	50	800	150	800	140
TB1100M NEW	90	5	130	3.5	50	800	150	800	90
TB1300M NEW	120	5	160	3.5	50	800	150	800	90
TB1500M NEW	140	5	180	3.5	50	800	150	800	90
TB1800M NEW	160	5	220	3.5	50	800	150	800	90
TB2300M NEW	190	5	265	3.5	50	800	150	800	60
TB2600M NEW	220	5	300	3.5	50	800	150	800	60
TB3100M NEW	275	5	350	3.5	50	800	150	800	60
TB3500M NEW	320	5	400	3.5	50	800	150	800	60
Waveform $t_r/t_p$			Standard	$I_{pp}$ (A)	 <p>The graph illustrates the peak pulse current waveform. The Y-axis is labeled <math>I_{pp}</math> PEAK PULSE CURRENT (%) and ranges from 0 to 100. The X-axis is labeled TIME. The curve starts at 0, rises to a peak value (labeled <math>I_{pp}</math>), and then decays towards zero. Two time intervals are defined: <math>t_r</math> is the rise time to the peak value, and <math>t_p</math> is the decay time to half value. A horizontal dashed line marks the 50% point on the Y-axis.</p>				
2/10 $\mu s$			GR-1089-CORE	300					
8/20 $\mu s$			IEC 61000-4-5	250					
10/160 $\mu s$			FCC Part 68	150					
10/700 $\mu s$			ITU-T, K20/21	100					
10/560 $\mu s$			FCC Part 68	75					
10/1000 $\mu s$			GR-1089-CORE	50					

Type Number	Rated Repetitive Off-State Voltage	Off-State Leakage Current @ $V_{DRM}$	Breakover Voltage	On-State Voltage @ $I_T = 1A$	Breakover Current $I_{BO}$		Holding Current $I_H$		Off-State Capacitance
	$V_{DRM}$ (V)	$I_{DRM}$ ( $\mu A$ )	$V_{BO}$ (V)	$V_T$ (V)	Min (mA)	Max (mA)	Min (mA)	Max (mA)	$C_O$ (pF)
<b>100A Bidirectional Thyristor Surge Protection Device / SMB</b> 									
TB640H NEW	58	5	77	3.5	50	800	150	800	200
TB720H NEW	65	5	88	3.5	50	800	150	800	200
TB900H NEW	75	5	98	3.5	50	800	150	800	200
TB1100H NEW	90	5	130	3.5	50	800	150	800	120
TB1300H NEW	120	5	160	3.5	50	800	150	800	120
TB1500H NEW	140	5	180	3.5	50	800	150	800	120
TB1800H NEW	160	5	220	3.5	50	800	150	800	120
TB2300H NEW	190	5	265	3.5	50	800	150	800	80
TB2600H NEW	220	5	300	3.5	50	800	150	800	80
TB3100H NEW	275	5	350	3.5	50	800	150	800	80
TB3500H NEW	320	5	400	3.5	50	800	150	800	80
Waveform $t_r/t_p$	Standard	$I_{pp}$ (A)							
2/10 $\mu s$	GR-1089-CORE	500							
8/20 $\mu s$	IEC 61000-4-5	400							
10/160 $\mu s$	FCC Part 68	250							
10/700 $\mu s$	ITU-T, K20/21	200							
10/560 $\mu s$	FCC Part 68	160							
10/1000 $\mu s$	GR-1089-CORE	100							





# Through-Hole Schottky Rectifiers

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Type Number	Peak Repetitive Reverse Voltage	Maximum Average Rectified Current (†)		Peak Forward Surge Current (†)	Forward Voltage Drop		Maximum Reverse Current (†)	
	$V_{RRM}$	$I_O @ T_L$		$I_{FSM}$	$V_F @ I_F$		$I_R @ V_R$	
	V	A	°C	A	V	A	mA	V

## 1.0A Schottky Rectifiers / DO-41



1N5817	20	1.0	90	25	0.45	1.0	1.0	20
1N5818	30	1.0	90	25	0.55	1.0	1.0	30
1N5819	40	1.0	90	25	0.60	1.0	1.0	40
SB120	20	1.0	80	40	0.50	1.0	0.5	20
SB130	30	1.0	80	40	0.50	1.0	0.5	30
SB140	40	1.0	80	40	0.50	1.0	0.5	40
SB150	50	1.0	80	40	0.70	1.0	0.5	50
SB160	60	1.0	80	40	0.70	1.0	0.5	60
SB170	70	1.0	85	25	0.80	1.0	0.5	70
SB180	80	1.0	85	25	0.80	1.0	0.5	80
SB190	90	1.0	85	25	0.80	1.0	0.5	90
SB1100	100	1.0	85	25	0.80	1.0	0.5	100

Type Number	Peak Repetitive Reverse Voltage	Maximum Average Rectified Current (†)		Peak Forward Surge Current (†)	Forward Voltage Drop		Maximum Reverse Current (†)		Pin-out Config.	
	$V_{RRM}$	$I_O @ T_T$		$I_{FSM}$	$V_F @ I_F$		$I_R @ V_R$			
	V	A	°C	A	V	A	mA	V		

## 3.0A Schottky Rectifiers / DO-201AD



1N5820	20	3.0	90	80	0.475	3.0	2.0	20	N/A
1N5821	30	3.0	90	80	0.500	3.0	2.0	30	N/A
1N5822	40	3.0	90	80	0.525	3.0	2.0	40	N/A
SB320	20	3.0	80	80	0.50	3.0	0.5	20	N/A
SB330	30	3.0	80	80	0.50	3.0	0.5	30	N/A
SB340	40	3.0	80	80	0.50	3.0	0.5	40	N/A
SB350	50	3.0	80	80	0.74	3.0	0.5	50	N/A
SB360	60	3.0	80	80	0.74	3.0	0.5	60	N/A
SB330L	30	3.0	80	90	0.37	3.0	1.0	30	N/A
SB370 <sup>NEW</sup>	70	3.0	80	80	0.79	3.0	0.5	70	N/A
SB380	80	3.0	80	80	0.79	3.0	0.5	80	N/A
SB390	90	3.0	80	80	0.79	3.0	0.5	90	N/A
SB3100	100	3.0	80	80	0.79	3.0	0.5	100	N/A

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Maximum Average Rectified Current (†)		Peak Forward Surge Current (†)	Forward Voltage Drop		Maximum Reverse Current (†)		Pin-out Config.	
	$V_{RRM}$	$I_O @ T_L$		$I_{FSM}$	$V_F @ I_F$		$I_R @ V_R$			
	V	A	°C	A	V	A	mA	V		
<b>5.0A Schottky Rectifiers / DO-201AD</b>										
SB520	20	5.0	80	150	0.55	5.0	0.5	20	N/A	
SB530	30	5.0	80	150	0.55	5.0	0.5	30	N/A	
SB540	40	5.0	80	150	0.55	5.0	0.5	40	N/A	
SB550	50	5.0	80	150	0.70	5.0	0.5	50	N/A	
SB560	60	5.0	80	150	0.70	5.0	0.5	60	N/A	
SB570	70	5.0	80	150	0.80	5.0	0.5	70	N/A	
SB580	80	5.0	80	150	0.80	5.0	0.5	80	N/A	
SB590	90	5.0	80	150	0.80	5.0	0.5	90	N/A	
SB5100	100	5.0	80	150	0.80	5.0	0.5	100	N/A	
<b>5.0A Schottky Rectifiers / TO-220AC</b>										
SBL530	30	5.0	95*	175	0.55	5.0	0.5	30	N/A	
SBL535	35	5.0	95*	175	0.55	5.0	0.5	35	N/A	
SBL540	40	5.0	95*	175	0.55	5.0	0.5	40	N/A	
SBL545	45	5.0	95*	175	0.55	5.0	0.5	45	N/A	
SBL550	50	5.0	95*	175	0.70	5.0	0.5	50	N/A	
SBL560	60	5.0	95*	175	0.70	5.0	0.5	60	N/A	
<b>7.5A Schottky Rectifiers / TO-220AC</b>										
MBR730	30	7.5	125*	150	0.55	7.5	1.0	30	N/A	
MBR735	35	7.5	125*	150	0.55	7.5	1.0	35	N/A	
MBR740	40	7.5	125*	150	0.55	7.5	1.0	40	N/A	
MBR745	45	7.5	125*	150	0.55	7.5	1.0	45	N/A	
MBR750	50	7.5	125*	150	0.70	7.5	1.0	50	N/A	
MBR760	60	7.5	125*	150	0.70	7.5	1.0	60	N/A	
<b>8.0A Schottky Rectifiers / DO-201AD</b>										
SD830	30	8.0	90	175	0.55	8.0	1.0	30	N/A	
SD840	40	8.0	90	175	0.55	8.0	1.0	40	N/A	
SD845	45	8.0	90	175	0.55	8.0	1.0	45	N/A	
SD860	60	8.0	90	175	0.70	8.0	1.0	60	N/A	
<b>8.0A Schottky Rectifiers / TO-220AC</b>										
SBL830	30	8.0	95*	200	0.55	8.0	0.5	30	N/A	
SBL835	35	8.0	95*	200	0.55	8.0	0.5	35	N/A	
SBL840	40	8.0	95*	200	0.55	8.0	0.5	40	N/A	
SBL845	45	8.0	95*	200	0.55	8.0	0.5	45	N/A	
SBL850	50	8.0	95*	200	0.70	8.0	0.5	50	N/A	
SBL860	60	8.0	95*	200	0.70	8.0	0.5	60	N/A	

\*  $T_C$ , Case Temperature

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Maximum Average Rectified Current (†)		Peak Forward Surge Current (†)	Forward Voltage Drop		Maximum Reverse Current (†)		Pin-out Config.	
	$V_{RRM}$	$I_O @ T_C$		$I_{FSM}$	$V_F @ I_F$		$I_R @ V_R$			
	V	A	°C	A	V	A	mA	V		

### 9.0A Schottky Rectifiers / DO-201AD



SD930	30	9.0	120	340	0.48	9.0	0.8	30	N/A
SD940	40	9.0	120	340	0.48	9.0	0.8	40	N/A
SD945	45	9.0	120	340	0.48	9.0	0.8	45	N/A

### 10A Schottky Rectifiers / TO-220AC



MBR1030	30	10	125	150	0.84	10	0.1	30	N/A
MBR1035	35	10	125	150	0.84	10	0.1	35	N/A
MBR1040	40	10	125	150	0.84	10	0.1	40	N/A
MBR1045	45	10	125	150	0.84	10	0.1	45	N/A
MBR1050	50	10	125	150	0.95	10	0.1	50	N/A
MBR1060	60	10	125	150	0.95	10	0.1	60	N/A
SBL1025L NEW	25	10	120	200	0.45	10	1.0	25	N/A
SBL1030L NEW	30	10	120	200	0.45	10	1.0	30	N/A
SBL1030	30	10	95	250	0.60	10	1.0	30	N/A
SBL1035	35	10	95	250	0.60	10	1.0	35	N/A
SBL1040	40	10	95	250	0.60	10	1.0	40	N/A
SBL1045	45	10	95	250	0.60	10	1.0	45	N/A
SBL1050	50	10	95	250	0.75	10	1.0	50	N/A
SBL1060	60	10	95	250	0.75	10	1.0	60	N/A

### 10A Schottky Rectifiers (Dual) / TO-220AB



SBL1030CT	30	10	95	175	0.55	5	0.5	30	N/A
SBL1035CT	35	10	95	175	0.55	5	0.5	35	N/A
SBL1040CT	40	10	95	175	0.55	5	0.5	40	N/A
SBL1045CT	45	10	95	175	0.55	5	0.5	45	N/A
SBL1050CT	50	10	95	175	0.70	5	0.5	50	N/A
SBL1060CT	60	10	95	175	0.70	5	0.5	60	N/A
MBR1030CT	30	10	105	125	0.84	10	0.1	30	N/A
MBR1035CT	35	10	105	125	0.84	10	0.1	35	N/A
MBR1040CT	40	10	105	125	0.84	10	0.1	40	N/A
MBR1045CT	45	10	105	125	0.84	10	0.1	45	N/A
MBR1050CT	50	10	105	125	0.95	10	0.1	50	N/A
MBR1060CT	60	10	105	125	0.95	10	0.1	60	N/A
MBR1070CT	70	10	100	120	0.95	10	0.1	70	N/A
MBR1080CT	80	10	100	120	0.95	10	0.1	80	N/A
MBR1090CT	90	10	100	120	0.95	10	0.1	90	N/A
MBR10100CT	100	10	100	120	0.95	10	0.1	100	N/A

### 15A Schottky Rectifiers (Dual) / TO-220AB



MBR1530CT	30	15	125	150	0.70	7.5	0.1	30	N/A
MBR1535CT	35	15	125	150	0.70	7.5	0.1	35	N/A
MBR1540CT	40	15	125	150	0.70	7.5	0.1	40	N/A
MBR1545CT	45	15	125	150	0.70	7.5	0.1	45	N/A
MBR1550CT	50	15	125	150	0.75	7.5	1.0	50	N/A
MBR1560CT	60	15	125	150	0.75	7.5	1.0	60	N/A

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Maximum Average Rectified Current (†)		Peak Forward Surge Current (†)	Forward Voltage Drop		Maximum Reverse Current (†)		Pin-out Config.	
	$V_{RRM}$	$I_O @ T_C$		$I_{FSM}$	$V_F @ I_F$		$I_R @ V_R$			
	V	A	°C	A	V	A	mA	V		
<b>16A Schottky Rectifiers / TO-220AC</b>										
MBR1630	30	16	125	150	0.63	16	0.2	30	N/A	
MBR1635	35	16	125	150	0.63	16	0.2	35	N/A	
MBR1640	40	16	125	150	0.63	16	0.2	40	N/A	
MBR1645	45	16	125	150	0.63	16	0.2	45	N/A	
MBR1650	50	16	125	150	0.75	16	1.0	50	N/A	
MBR1660	60	16	125	150	0.75	16	1.0	60	N/A	
SBL1630	30	16	95	275	0.57	16	1.0	30	N/A	
SBL1635	35	16	95	275	0.57	16	1.0	35	N/A	
SBL1640	40	16	95	275	0.57	16	1.0	40	N/A	
SBL1645	45	16	95	275	0.57	16	1.0	45	N/A	
SBL1650	50	16	95	275	0.75	16	1.0	50	N/A	
SBL1660	60	16	95	275	0.75	16	1.0	60	N/A	
<b>16A Schottky Rectifiers / TO-220AB</b>										
SBL1630CT	30	16	95	250	0.55	8.0	0.5	30	N/A	
SBL1635CT	35	16	95	250	0.55	8.0	0.5	35	N/A	
SBL1640CT	40	16	95	250	0.55	8.0	0.5	40	N/A	
SBL1645CT	45	16	95	250	0.55	8.0	0.5	45	N/A	
SBL1650CT	50	16	95	250	0.70	8.0	0.5	50	N/A	
SBL1660CT	60	16	95	250	0.70	8.0	0.5	60	N/A	
<b>16A Schottky Rectifiers (Dual) / TO-3P</b>										
SBL1630PT	30	16	95	250	0.55	8.0	0.5	30	N/A	
SBL1635PT	35	16	95	250	0.55	8.0	0.5	35	N/A	
SBL1640PT	40	16	95	250	0.55	8.0	0.5	40	N/A	
SBL1645PT	45	16	95	250	0.55	8.0	0.5	45	N/A	
SBL1650PT	50	16	95	250	0.70	8.0	0.5	50	N/A	
SBL1660PT	60	16	95	250	0.70	8.0	0.5	60	N/A	
<b>20A Schottky Rectifiers (Dual) / TO-220AB</b>										
MBR2030CT	30	20	125	150	0.84	20	0.1	30	N/A	
MBR2035CT	35	20	125	150	0.84	20	0.1	35	N/A	
MBR2040CT	40	20	125	150	0.84	20	0.1	40	N/A	
MBR2045CT	45	20	125	150	0.84	20	0.1	45	N/A	
MBR2050CT	50	20	125	150	0.95	20	0.1	50	N/A	
MBR2060CT	60	20	125	150	0.95	20	0.1	60	N/A	
MBR2070CT	70	20	125	150	0.95	20	0.15	70	N/A	
MBR2080CT	80	20	125	150	0.95	20	0.15	80	N/A	
MBR2090CT	90	20	125	150	0.95	20	0.15	90	N/A	
MBR20100CT	100	20	125	150	0.95	20	0.15	100	N/A	
SBL2030CT	30	20	95	250	0.55	10	1.0	30	N/A	
SBL2035CT	35	20	95	250	0.55	10	1.0	35	N/A	
SBL2040CT	40	20	95	250	0.55	10	1.0	40	N/A	
SBL2045CT	45	20	95	250	0.55	10	1.0	45	N/A	
SBL2050CT	50	20	95	250	0.75	10	1.0	50	N/A	
SBL2060CT	60	20	95	250	0.75	10	1.0	60	N/A	

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Maximum Average Rectified Current (†)		Peak Forward Surge Current (†)	Forward Voltage Drop		Maximum Reverse Current (†)		Pin-out Config.	
	$V_{RRM}$	$I_O @ T_C$		$I_{FSM}$	$V_F @ I_F$		$I_R @ V_R$			
	V	A	°C	A	V	A	mA	V		
<b>20A Schottky Rectifiers (Dual) / TO-3P</b>										
 <b>SBL2030PT</b> 30    20    100    250    0.55    10    1.0    30    N/A <b>SBL2035PT</b> 35    20    100    250    0.55    10    1.0    35    N/A <b>SBL2040PT</b> 40    20    100    250    0.55    10    1.0    40    N/A <b>SBL2045PT</b> 45    20    100    250    0.55    10    1.0    45    N/A <b>SBL2050PT</b> 50    20    100    250    0.75    10    1.0    50    N/A <b>SBL2060PT</b> 60    20    100    250    0.75    10    1.0    60    N/A										
<b>30A Schottky Rectifiers (Dual) / TO-220AB</b>										
 <b>MBR2535CT</b> 35    30    130    150    0.82    30    0.2    35    N/A <b>MBR2545CT</b> 45    30    130    150    0.82    30    0.2    45    N/A <b>MBR2550CT</b> 50    30    130    150    0.75    15    1.0    50    N/A <b>MBR2560CT</b> 60    30    130    150    0.75    15    1.0    60    N/A										
<b>SBL3030CT</b> 30    30    100    250    0.55    15    1.0    30    N/A <b>SBL3040CT</b> 40    30    100    250    0.55    15    1.0    40    N/A <b>SBL3045CT</b> 45    30    100    250    0.55    15    1.0    45    N/A <b>SBL3050CT</b> 50    30    100    250    0.70    15    1.0    50    N/A <b>SBL3060CT</b> 60    30    100    250    0.70    15    1.0    60    N/A										

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Maximum Average Rectified Current (†)	Peak Forward Surge Current (†)	Forward Voltage Drop	Maximum Reverse Current (†)	
	$V_{RRM}$	$I_O @ T_C$	$I_{FSM}$	$V_F @ I_F$	$I_R @ V_R$	
	V	A	°C	A	V	mA

### 30A Schottky Rectifiers (Dual) / TO-3P



MBR3030PT	30	30	125	200	0.65	20	1.0	30
MBR3035PT	35	30	125	200	0.65	20	1.0	35
MBR3040PT	40	30	125	200	0.65	20	1.0	40
MBR3045PT	45	30	125	200	0.65	20	1.0	45
MBR3050PT	50	30	125	200	0.75	20	5.0	50
MBR3060PT	60	30	125	200	0.75	20	5.0	60
SBL3030PT	30	30	95	275	0.55	15	1.0	30
SBL3035PT	35	30	95	275	0.55	15	1.0	35
SBL3040PT	40	30	95	275	0.55	15	1.0	40
SBL3045PT	45	30	95	275	0.55	15	1.0	45
SBL3050PT	50	30	95	275	0.70	15	1.0	50
SBL3060PT	60	30	95	275	0.70	15	1.0	60

### 40A Schottky Rectifiers (Dual) / TO-3P



MBR4030PT	30	40	125	400	0.70	20	1.0	30
MBR4035PT	35	40	125	400	0.70	20	1.0	35
MBR4040PT	40	40	125	400	0.70	20	1.0	40
MBR4045PT	45	40	125	400	0.70	20	1.0	45
MBR4050PT	50	40	125	400	0.80	20	1.0	50
MBR4060PT	60	40	125	400	0.80	20	1.0	60
SBL4030PT	30	40	100	375	0.58	20	1.0	30
SBL4035PT	35	40	100	375	0.58	20	1.0	35
SBL4040PT	40	40	100	375	0.58	20	1.0	40
SBL4045PT	45	40	100	375	0.58	20	1.0	45
SBL4050PT	50	40	100	375	0.70	20	1.0	50
SBL4060PT	60	40	100	375	0.70	20	1.0	60

### 60A Schottky Rectifiers (Dual) / TO-3P



MBR6030PT	30	60	125	500	0.62	30	1.0	30
MBR6035PT	35	60	125	500	0.62	30	1.0	35
MBR6040PT	40	60	125	500	0.62	30	1.0	40
MBR6045PT	45	60	125	500	0.62	30	1.0	45
SBL6030PT	30	60	100	500	0.55	30	20	30
SBL6040PT	40	60	100	500	0.55	30	20	40
SBL6050PT	50	60	100	500	0.70	30	20	50
SBL6060PT	60	60	100	500	0.70	30	20	60

(†) Reference product datasheet for specific test conditions.

# Super-/Ultra-Fast Recovery Rectifiers

Type Number	Peak Repetitive Reverse Voltage	Reverse Recovery Time (t)	Max. Average Rectified Current (t)		Max. Peak Forward Surge Current (t)	Forward Voltage Drop		Max. Reverse Current (t)	
	V <sub>RRM</sub>	t <sub>rr</sub>	I <sub>O</sub> @ T <sub>T</sub>		I <sub>FSM</sub>	V <sub>F</sub> @ I <sub>F</sub>		I <sub>R</sub> @ V <sub>R</sub>	
	V	ns	A	°C	A	V	A	μA	V

## 1.0A Super-/Ultra-Fast Recovery Glass Passivated Rectifiers / SMA

ES1A	50	20	1.0	110	30	0.98	1.0	5.0	50
ES1B	100	20	1.0	110	30	0.98	1.0	5.0	100
ES1C	150	20	1.0	110	30	0.98	1.0	5.0	150
ES1D	200	20	1.0	110	30	0.98	1.0	5.0	200
ES1G	400	20	1.0	110	30	1.25	1.0	5.0	400
US1A	50	50	1.0	75	30	1.0	1.0	5.0	50
US1B	100	50	1.0	75	30	1.0	1.0	5.0	100
US1D	200	50	1.0	75	30	1.0	1.0	5.0	200
US1G	400	50	1.0	75	30	1.3	1.0	5.0	400
US1J	600	75	1.0	75	30	1.7	1.0	5.0	600
US1K	800	75	1.0	75	30	1.7	1.0	5.0	800
US1M	1000	75	1.0	75	30	1.7	1.0	5.0	1000

## 1.0A Super-/Ultra-Fast Recovery Glass Passivated Rectifiers / SMB

MURS120	200	25	1.0	155	40	0.875	1.0	2.0	200
MURS140	400	50	1.0	150	35	1.25	1.0	5.0	400
MURS160	600	50	1.0	150	35	1.25	1.0	5.0	600

## 1.0A Super-/Ultra-Fast Recovery Rectifiers / DO-41

UF1001	50	50	1.0	55*	30	1.0	1.0	5.0	50
UF1002	100	50	1.0	55*	30	1.0	1.0	5.0	100
UF1003	200	50	1.0	55*	30	1.0	1.0	5.0	200
UF1004	400	50	1.0	55*	30	1.3	1.0	5.0	400
UF1005	600	75	1.0	55*	30	1.7	1.0	5.0	600
UF1006	800	75	1.0	55*	30	1.7	1.0	5.0	800
UF1007	1000	75	1.0	55*	30	1.7	1.0	5.0	1000

## 1.0A Super-/Ultra-Fast Recovery Glass Passivated Rectifiers / DO-41

SF10AG	50	35	1.0	75*	30	0.95	1.0	10	50
SF10BG	100	35	1.0	75*	30	0.95	1.0	10	100
SF10CG	150	35	1.0	75*	30	0.95	1.0	10	150
SF10DG	200	35	1.0	75*	30	0.95	1.0	10	200
SF10FG	300	40	1.0	75*	30	1.3	1.0	10	300
SF10GG	400	40	1.0	75*	30	1.3	1.0	10	400
SF10HG	500	50	1.0	75*	30	1.5	1.0	10	500
SF10JG	600	50	1.0	75*	30	1.5	1.0	10	600

\* T<sub>A</sub>: Ambient Temperature

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Reverse Recovery Time (†)	Max. Average Rectified Current (†)		Max. Peak Forward Surge Current (†)	Forward Voltage Drop	Max. Reverse Current (†)	
	$V_{RRM}$	$t_{rr}$	$I_o @ T_T$		$I_{FSM}$	$V_F @ I_F$	$I_R @ V_R$	
	V	ns	A	°C	A	V	A	μA

### 1.0A Super-/Ultra-Fast Recovery Glass Passivated Rectifiers / DO-41



MUR120	200	25	1.0	130	35	0.875	1.0	2.0	200
MUR140	400	50	1.0	120	35	1.25	1.0	5.0	400
MUR160	600	50	1.0	120	35	1.25	1.0	5.0	600
UG1001	50	50	1.0	55*	30	1.0	1.0	5.0	50
UG1002	100	50	1.0	55*	30	1.0	1.0	5.0	100
UG1003	200	50	1.0	55*	30	1.0	1.0	5.0	200
UG1004	400	50	1.0	55*	30	1.3	1.0	5.0	400
UG1005	600	75	1.0	55*	30	1.7	1.0	5.0	600

### 1.5A Ultra-Fast Recovery Rectifiers / DO-15



UF1501	50	50	1.5	50*	50	1.0	1.5	5.0	50
UF1502	100	50	1.5	50*	50	1.0	1.5	5.0	100
UF1503	200	50	1.5	50*	50	1.0	1.5	5.0	200
UF1504	400	50	1.5	50*	50	1.3	1.5	5.0	400
UF1505	600	75	1.5	50*	50	1.7	1.5	5.0	600
UF1506	800	75	1.5	50*	50	1.7	1.5	5.0	800
UF1507	1000	75	1.5	50*	50	1.7	1.5	5.0	1000

### 1.5A Ultra-Fast Recovery Rectifiers / DO-41



UF1501S	50	50	1.5	50*	50	1.0	1.5	5.0	50
UF1502S	100	50	1.5	50*	50	1.0	1.5	5.0	100
UF1503S	200	50	1.5	50*	50	1.0	1.5	5.0	200
UF1504S	400	50	1.5	50*	50	1.3	1.5	5.0	400
UF1505S	600	75	1.5	50*	50	1.7	1.5	5.0	600
UF1506S	800	75	1.5	50*	50	1.7	1.5	5.0	800
UF1507S	1000	75	1.5	50*	50	1.7	1.5	5.0	1000

### 2.0A Super-Fast Recovery Glass Passivated Rectifiers / SMA



ES2AA	50	25	2.0	110	50	0.92	2.0	5.0	50
ES2BA	100	25	2.0	110	50	0.92	2.0	5.0	100
ES2CA	150	25	2.0	110	50	0.92	2.0	5.0	150
ES2DA	200	25	2.0	110	50	0.92	2.0	5.0	200

### 2.0A Super-Fast Recovery Glass Passivated Rectifiers / SMB



ES2A	50	25	2.0	110	50	0.92	2.0	5.0	50
ES2B	100	25	2.0	110	50	0.92	2.0	5.0	100
ES2C	150	25	2.0	110	50	0.92	2.0	5.0	150
ES2D	200	25	2.0	110	50	0.92	2.0	5.0	200

\*  $T_A$ , Ambient Temperature

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Reverse Recovery Time (t)	Max. Average Rectified Current (t)		Max. Peak Forward Surge Current (t)	Forward Voltage Drop		Max. Reverse Current (t)	
	V <sub>RRM</sub>	t <sub>rr</sub>	I <sub>O</sub> @ T <sub>A</sub>		I <sub>FSM</sub>	V <sub>F</sub> @ I <sub>F</sub>		I <sub>R</sub> @ V <sub>R</sub>	
	V	ns	A	°C	A	V	A	μA	V

## 2.0A Super-Fast Recovery Rectifiers / DO-15



UF2001	50	50	2.0	50	60	1.0	2.0	5.0	50
UF2002	100	50	2.0	50	60	1.0	2.0	5.0	100
UF2003	200	50	2.0	50	60	1.0	2.0	5.0	200
UF2004	400	50	2.0	50	60	1.3	2.0	5.0	400
UF2005	600	75	2.0	50	60	1.7	2.0	5.0	600
UF2006	800	75	2.0	50	60	1.7	2.0	5.0	800
UF2007	1000	75	2.0	50	60	1.7	2.0	5.0	1000

## 2.0A Super-/Ultra-Fast Recovery Glass Passivated Rectifiers / DO-15



SF20AG	50	35	2.0	75	60	0.95	2.0	10	50
SF20BG	100	35	2.0	75	60	0.95	2.0	10	100
SF20CG	150	35	2.0	75	60	0.95	2.0	10	150
SF20DG	200	35	2.0	75	60	0.95	2.0	10	200
SF20FG	300	40	2.0	75	60	1.3	2.0	10	300
SF20GG	400	40	2.0	75	60	1.3	2.0	10	400
SF20HG	500	50	2.0	75	60	1.5	2.0	10	500
SF20JG	600	50	2.0	75	60	1.5	2.0	10	600
UG2001	50	50	2.0	55	60	1.0	2.0	8.0	50
UG2002	100	50	2.0	55	60	1.0	2.0	8.0	100
UG2003	200	50	2.0	55	60	1.0	2.0	8.0	200
UG2004	400	50	2.0	55	60	1.3	2.0	8.0	400
UG2005	600	50	2.0	55	60	1.7	2.0	8.0	600

## 3.0A Super-Fast Recovery Glass Passivated Rectifiers / SMB



ES3AB	50	25	3.0	100*	100	0.9	3.0	10	50
ES3BB	100	25	3.0	100*	100	0.9	3.0	10	100
ES3CB	150	25	3.0	100*	100	0.9	3.0	10	150
ES3DB	200	25	3.0	100*	100	0.9	3.0	10	200

\*T<sub>T</sub>, Terminal Temperature

## 3.0A Super-Fast Recovery Glass Passivated Rectifiers / SMC



ES3A	50	25	3.0	100*	100	0.9	3.0	10	50
ES3B	100	25	3.0	100*	100	0.9	3.0	10	100
ES3C	150	25	3.0	100*	100	0.9	3.0	10	150
ES3D	200	25	3.0	100*	100	0.9	3.0	10	200
MURS320 NEW	200	25	3.0	140*	75	0.9	3.0	5	200

\*T<sub>T</sub>, Terminal Temperature

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Reverse Recovery Time (t)	Max. Average Rectified Current (t)		Max. Peak Forward Surge Current (t)	Forward Voltage Drop		Max. Reverse Current (t)	
	V <sub>RRM</sub>	t <sub>rr</sub>	I <sub>O</sub> @ T <sub>A</sub>		I <sub>FSM</sub>	V <sub>F</sub> @ I <sub>F</sub>		I <sub>R</sub> @ V <sub>R</sub>	
	V	ns	A	°C	A	V	A	μA	V

### 3.0A Super-/Ultra-Fast Recovery Glass Passivated Rectifiers / DO-201AD



SF30AG	50	35	3.0	55	125	0.95	3.0	5.0	50
SF30BG	100	35	3.0	55	125	0.95	3.0	5.0	100
SF30CG	150	35	3.0	55	125	0.95	3.0	5.0	150
SF30DG	200	35	3.0	55	125	0.95	3.0	5.0	200
SF30FG	300	40	3.0	55	125	1.3	3.0	5.0	300
SF30GG	400	40	3.0	55	125	1.3	3.0	5.0	400
SF30HG	500	50	3.0	55	125	1.5	3.0	5.0	500
SF30JG	600	50	3.0	55	125	1.5	3.0	5.0	600
UG3001	50	50	3.0	55	125	0.95	3.0	5.0	50
UG3002	100	50	3.0	55	125	0.95	3.0	5.0	100
UG3003	200	50	3.0	55	125	0.95	3.0	5.0	200
UG3004	400	50	3.0	55	125	1.25	3.0	5.0	400
UG3005	600	75	3.0	55	125	1.7	3.0	5.0	600

### 3.0A Ultra-Fast Recovery Rectifiers / DO-201AD



UF3001	50	50	3.0	55	150	1.0	3.0	5.0	50
UF3002	100	50	3.0	55	150	1.0	3.0	5.0	100
UF3003	200	50	3.0	55	150	1.0	3.0	5.0	200
UF3004	400	50	3.0	55	150	1.3	3.0	5.0	400
UF3005	600	75	3.0	55	150	1.7	3.0	5.0	600
UF3006	800	75	3.0	55	150	1.7	3.0	5.0	800
UF3007	1000	75	3.0	55	150	1.7	3.0	5.0	1000

### 4.0A Super-/Ultra-Fast Recovery Rectifiers / POWERMITE® 3

(Under Development)



MURM420	200	35/25	4.0	75*	100	0.83	4.0	10	200
MURM460	600	75/50	4.0	75*	100	1.28	4.0	10	600

\*T<sub>S</sub>, Soldering Point Temperature

### 8.0A Super-/Ultra-Fast Recovery Rectifiers / POWERMITE® 3

(Under Development)



MURM820	200	35/25	8.0	75*	100	1.00	8.0	10	200
MURM840	400	60/50	8.0	75*	100	1.30	8.0	10	400

\*T<sub>S</sub>, Soldering Point Temperature

### 16A Super-Fast Recovery Glass Passivated Rectifiers

(Dual) / D<sup>2</sup>PAK



MURB1610CT	100	25	16	125**	100	0.975	8.0	5.0	100
MURB1620CT	200	25	16	125**	100	0.975	8.0	5.0	200

\*\* T<sub>C</sub>, Case Temperature

(†) Reference product datasheet for specific test conditions.

POWERMITE is a registered trademark of MicroSemi Corporation.

# Fast Recovery Rectifiers

Type Number	Peak Repetitive Reverse Voltage	Reverse Recovery Time (t)	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current	
	V <sub>RRM</sub>	t <sub>rr</sub>	I <sub>O</sub> @ T <sub>T</sub>		I <sub>FSM</sub>	V <sub>F</sub> @ I <sub>F</sub>		I <sub>R</sub> @ V <sub>R</sub>	
	V	ns	A	°C	A	V	A	μA	V

## 1.0A Fast Recovery Glass Passivated Rectifiers / MELF



DL4933	50	200	1.0	75	30	1.2	1.0	5.0	50
DL4934	100	200	1.0	75	30	1.2	1.0	5.0	100
DL4935	200	200	1.0	75	30	1.2	1.0	5.0	200
DL4936	400	200	1.0	75	30	1.2	1.0	5.0	400
DL4937	600	200	1.0	75	30	1.2	1.0	5.0	600

## 1.0A Fast Recovery Glass Passivated Rectifiers / SMA



RS1A	50	150	1.0	120	30	1.3	1.0	5.0	50
RS1B	100	150	1.0	120	30	1.3	1.0	5.0	100
RS1D	200	150	1.0	120	30	1.3	1.0	5.0	200
RS1G	400	150	1.0	120	30	1.3	1.0	5.0	400
RS1J	600	250	1.0	120	30	1.3	1.0	5.0	600
RS1K	800	500	1.0	120	30	1.3	1.0	5.0	800
RS1M	1000	500	1.0	120	30	1.3	1.0	5.0	1000

## 1.0A Fast Recovery Glass Passivated Rectifiers / SMB



RS1AB	50	150	1.0	120	30	1.3	1.0	5.0	50
RS1BB	100	150	1.0	120	30	1.3	1.0	5.0	100
RS1DB	200	150	1.0	120	30	1.3	1.0	5.0	200
RS1GB	400	150	1.0	120	30	1.3	1.0	5.0	400
RS1JB	600	250	1.0	120	30	1.3	1.0	5.0	600
RS1KB	800	500	1.0	120	30	1.3	1.0	5.0	800
RS1MB	1000	500	1.0	120	30	1.3	1.0	5.0	1000

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Reverse Recovery Time (†)	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current	
	$V_{RRM}$	$t_{rr}$	$I_o @ T_A$		$I_{FSM}$	$V_F @ I_F$		$I_R @ V_R$	
	V	ns	A	$^{\circ}\text{C}$	A	V	A	$\mu\text{A}$	V

### 1.0A Fast Recovery Rectifiers / DO-41



PR1001	50	150	1.0	75	30	1.2	1.0	5.0	50
PR1002	100	150	1.0	75	30	1.2	1.0	5.0	100
PR1003	200	150	1.0	75	30	1.2	1.0	5.0	200
PR1004	400	150	1.0	75	30	1.2	1.0	5.0	400
PR1005	600	250	1.0	75	30	1.2	1.0	5.0	600
1N4933	50	200	1.0	75	30	1.2	1.0	5.0	50
1N4934	100	200	1.0	75	30	1.2	1.0	5.0	100
1N4935	200	200	1.0	75	30	1.2	1.0	5.0	200
1N4936	400	200	1.0	75	30	1.2	1.0	5.0	400
1N4937	600	200	1.0	75	30	1.2	1.0	5.0	600

### 1.0A Fast Recovery Glass Passivated Rectifiers / DO-41



PR1001G	50	150	1.0	55	30	1.3	1.0	5.0	50
PR1002G	100	150	1.0	55	30	1.3	1.0	5.0	100
PR1003G	200	150	1.0	55	30	1.3	1.0	5.0	200
PR1004G	400	150	1.0	55	30	1.3	1.0	5.0	400
PR1005G	600	250	1.0	55	30	1.3	1.0	5.0	600
PR1006G	800	500	1.0	55	30	1.3	1.0	5.0	800
PR1007G	1000	500	1.0	55	30	1.3	1.0	5.0	1000
1N4933G	50	200	1.0	75	30	1.2	1.0	5.0	50
1N4934G	100	200	1.0	75	30	1.2	1.0	5.0	100
1N4935G	200	200	1.0	75	30	1.2	1.0	5.0	200
1N4936G	400	200	1.0	75	30	1.2	1.0	5.0	400
1N4937G	600	200	1.0	75	30	1.2	1.0	5.0	600

### 1.0A Fast Recovery Rectifiers / A-405



PR1001L	50	150	1.0	75	30	1.2	1.0	5.0	50
PR1002L	100	150	1.0	75	30	1.2	1.0	5.0	100
PR1003L	200	150	1.0	75	30	1.2	1.0	5.0	200
PR1004L	400	150	1.0	75	30	1.2	1.0	5.0	400
PR1005L	600	250	1.0	75	30	1.2	1.0	5.0	600
1N4933L	50	200	1.0	75	30	1.2	1.0	5.0	50
1N4934L	100	200	1.0	75	30	1.2	1.0	5.0	100
1N4935L	200	200	1.0	75	30	1.2	1.0	5.0	200
1N4936L	400	200	1.0	75	30	1.2	1.0	5.0	400
1N4937L	600	200	1.0	75	30	1.2	1.0	5.0	600

### 1.0A Fast Recovery Glass Passivated Rectifiers / A-405



PR1001GL	50	150	1.0	55	30	1.3	1.0	5.0	50
PR1002GL	100	150	1.0	55	30	1.3	1.0	5.0	100
PR1003GL	200	150	1.0	55	30	1.3	1.0	5.0	200
PR1004GL	400	150	1.0	55	30	1.3	1.0	5.0	400
PR1005GL	600	250	1.0	55	30	1.3	1.0	5.0	600
PR1006GL	800	500	1.0	55	30	1.3	1.0	5.0	800
PR1007GL	1000	500	1.0	55	30	1.3	1.0	5.0	1000

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Reverse Recovery Time (t <sub>rr</sub> )	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current	
	V <sub>RRM</sub>	t <sub>rr</sub>	I <sub>O</sub> @ T <sub>T</sub>		I <sub>FSM</sub>	V <sub>F</sub> @ I <sub>F</sub>		I <sub>R</sub> @ V <sub>R</sub>	
	V	ns	A	°C	A	V	A	μA	V

### 1.0A Fast Recovery Glass Passivated Rectifiers / A-405 (Continued)



1N4933GL	50	200	1.0	75*	30	1.2	1.0	5.0	50
1N4934GL	100	200	1.0	75*	30	1.2	1.0	5.0	100
1N4935GL	200	200	1.0	75*	30	1.2	1.0	5.0	200
1N4936GL	400	200	1.0	75*	30	1.2	1.0	5.0	400
1N4937GL	600	200	1.0	75*	30	1.2	1.0	5.0	600

### 1.5A Fast Recovery Glass Passivated Rectifiers / SMA



RS2AA	50	150	1.5	120	50	1.3	1.5	5.0	50
RS2BA	100	150	1.5	120	50	1.3	1.5	5.0	100
RS2DA	200	150	1.5	120	50	1.3	1.5	5.0	200
RS2GA	400	150	1.5	120	50	1.3	1.5	5.0	400
RS2JA	600	250	1.5	120	50	1.3	1.5	5.0	600
RS2KA	800	500	1.5	120	50	1.3	1.5	5.0	800
RS2MA	1000	500	1.5	120	50	1.3	1.5	5.0	1000

### 1.5A Fast Recovery Glass Passivated Rectifiers / SMB



RS2A	50	150	1.5	120	50	1.3	1.5	5.0	50
RS2B	100	150	1.5	120	50	1.3	1.5	5.0	100
RS2D	200	150	1.5	120	50	1.3	1.5	5.0	200
RS2G	400	150	1.5	120	50	1.3	1.5	5.0	400
RS2J	600	250	1.5	120	50	1.3	1.5	5.0	600
RS2K	800	500	1.5	120	50	1.3	1.5	5.0	800
RS2M	1000	500	1.5	120	50	1.3	1.5	5.0	1000

### 1.5A Fast Recovery Rectifiers / DO-15



PR1501	50	150	1.5	50*	50	1.2	1.5	5.0	50
PR1502	100	150	1.5	50*	50	1.2	1.5	5.0	100
PR1503	200	150	1.5	50*	50	1.2	1.5	5.0	200
PR1504	400	150	1.5	50*	50	1.2	1.5	5.0	400
PR1505	600	250	1.5	50*	50	1.2	1.5	5.0	600

### 1.5A Fast Recovery Glass Passivated Rectifiers / DO-15



PR1501G	50	150	1.5	55*	50	1.3	1.5	5.0	50
PR1502G	100	150	1.5	55*	50	1.3	1.5	5.0	100
PR1503G	200	150	1.5	55*	50	1.3	1.5	5.0	200
PR1504G	400	150	1.5	55*	50	1.3	1.5	5.0	400
PR1505G	600	250	1.5	55*	50	1.3	1.5	5.0	600
PR1506G	800	500	1.5	55*	50	1.3	1.5	5.0	800
PR1507G	1000	500	1.5	55*	50	1.3	1.5	5.0	1000

\* T<sub>A</sub>, Ambient Temperature

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Reverse Recovery Time (t <sub>rr</sub> )	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current	
	V <sub>RRM</sub>	t <sub>rr</sub>	I <sub>O</sub> @ T <sub>A</sub>		I <sub>FSM</sub>	V <sub>F</sub> @ I <sub>F</sub>		I <sub>R</sub> @ V <sub>R</sub>	
	V	ns	A	°C	A	V	A	μA	V
<b>1.5A Fast Recovery Rectifiers / DO-41</b>									
PR1501S	50	150	1.5	50	50	1.2	1.5	5.0	50
PR1502S	100	150	1.5	50	50	1.2	1.5	5.0	100
PR1503S	200	150	1.5	50	50	1.2	1.5	5.0	200
PR1504S	400	150	1.5	50	50	1.2	1.5	5.0	400
PR1505S	600	250	1.5	50	50	1.2	1.5	5.0	600
<b>1.5A Fast Recovery Glass Passivated Rectifiers / DO-41</b>									
PR1501GS	50	150	1.5	55	50	1.3	1.5	5.0	50
PR1502GS	100	150	1.5	55	50	1.3	1.5	5.0	100
PR1503GS	200	150	1.5	55	50	1.3	1.5	5.0	200
PR1504GS	400	150	1.5	55	50	1.3	1.5	5.0	400
PR1505GS	600	250	1.5	55	50	1.3	1.5	5.0	600
PR1506GS	800	500	1.5	55	50	1.3	1.5	5.0	800
PR1507GS	1000	500	1.5	55	50	1.3	1.5	5.0	1000
<b>2.0A Fast Recovery Rectifiers / DO-15</b>									
PR2001	50	150	2.0	50	50	1.2	2.0	5.0	50
PR2002	100	150	2.0	50	50	1.2	2.0	5.0	100
PR2003	200	150	2.0	50	50	1.2	2.0	5.0	200
PR2004	400	150	2.0	50	50	1.2	2.0	5.0	400
PR2005	600	250	2.0	50	50	1.2	2.0	5.0	600
<b>2.0A Fast Recovery Glass Passivated Rectifiers / DO-15</b>									
PR2001G	50	150	2.0	55	80	1.3	2.0	5.0	50
PR2002G	100	150	2.0	55	80	1.3	2.0	5.0	100
PR2003G	200	150	2.0	55	80	1.3	2.0	5.0	200
PR2004G	400	150	2.0	55	80	1.3	2.0	5.0	400
PR2005G	600	250	2.0	55	80	1.3	2.0	5.0	600
PR2006G	800	500	2.0	55	80	1.3	2.0	5.0	800
PR2007G	1000	500	2.0	55	80	1.3	2.0	5.0	1000
<b>3.0A Fast Recovery Glass Passivated Rectifiers / SMB</b>									
RS3AB	50	150	3.0	75*	100	1.3	3.0	5.0	50
RS3BB	100	150	3.0	75*	100	1.3	3.0	5.0	100
RS3DB	200	150	3.0	75*	100	1.3	3.0	5.0	200
RS3GB	400	150	3.0	75*	100	1.3	3.0	5.0	400
RS3JB	600	250	3.0	75*	100	1.3	3.0	5.0	600
RS3KB	800	500	3.0	75*	100	1.3	3.0	5.0	800
RS3MB	1000	500	3.0	75*	100	1.3	3.0	5.0	1000

\* T<sub>T</sub>, Terminal Temperature

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Reverse Recovery Time (†)	Max. Average Rectified Current		Max. Peak Forward Surge Current	Forward Voltage Drop		Max. Reverse Current	
	$V_{RRM}$	$t_{rr}$	$I_O @ T_A$		$I_{FSM}$	$V_F @ I_F$		$I_R @ V_R$	
	V	ns	A	°C	A	V	A	μA	V

### 3.0A Fast Recovery Glass Passivated Rectifiers / SMC



RS3A	50	150	3.0	75*	100	1.3	3.0	5.0	50
RS3B	100	150	3.0	75*	100	1.3	3.0	5.0	100
RS3D	200	150	3.0	75*	100	1.3	3.0	5.0	200
RS3G	400	150	3.0	75*	100	1.3	3.0	5.0	400
RS3J	600	250	3.0	75*	100	1.3	3.0	5.0	600
RS3K	800	500	3.0	75*	100	1.3	3.0	5.0	800
RS3M	1000	500	3.0	75*	100	1.3	3.0	5.0	1000

\*  $T_T$ , Terminal Temperature

### 3.0A Fast Recovery Rectifiers / DO-201AD



PR3001	50	150	3.0	90	150	1.2	3.0	5.0	50
PR3002	100	150	3.0	90	150	1.2	3.0	5.0	100
PR3003	200	150	3.0	90	150	1.2	3.0	5.0	200
PR3004	400	150	3.0	90	150	1.2	3.0	5.0	400
PR3005	600	250	3.0	90	150	1.2	3.0	5.0	600

### 3.0A Fast Recovery Glass Passivated Rectifiers / DO-201AD



PR3001G	50	150	3.0	55	125	1.3	3.0	5.0	50
PR3002G	100	150	3.0	55	125	1.3	3.0	5.0	100
PR3003G	200	150	3.0	55	125	1.3	3.0	5.0	200
PR3004G	400	250	3.0	55	125	1.3	3.0	5.0	400
PR3005G	600	250	3.0	55	125	1.3	3.0	5.0	600
PR3006G	800	500	3.0	55	125	1.3	3.0	5.0	800
PR3007G	1000	500	3.0	55	125	1.3	3.0	5.0	1000

### 6.0A Fast Recovery Rectifiers / R-6



PR6001	50	150	6.0	60	300	1.2	6.0	10	50
PR6002	100	150	6.0	60	300	1.2	6.0	10	100
PR6003	200	150	6.0	60	300	1.2	6.0	10	200
PR6004	400	150	6.0	60	300	1.2	6.0	10	400
PR6005	600	250	6.0	60	300	1.2	6.0	10	600

(†) Reference product datasheet for specific test conditions.



# Standard Recovery Rectifiers

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Type Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current (†)		Max. Peak Forward Surge Current (†)	Forward Voltage Drop		Max. Reverse Current (†)	
	$V_{RRM}$	$I_O @ T_T$		$I_{FSM}$	$V_F @ I_F$		$I_R @ V_R$	
	V	A	°C	A	V	A	μA	V

## 1.0A Standard Recovery Glass Passivated Rectifiers / MELF



DL4001	50	1.0	75	30	1.1	1.0	5.0	50
DL4002	100	1.0	75	30	1.1	1.0	5.0	100
DL4003	200	1.0	75	30	1.1	1.0	5.0	200
DL4004	400	1.0	75	30	1.1	1.0	5.0	400
DL4005	600	1.0	75	30	1.1	1.0	5.0	600
DL4006	800	1.0	75	30	1.1	1.0	5.0	800
DL4007	1000	1.0	75	30	1.1	1.0	5.0	1000

## 1.0A Standard Recovery Glass Passivated Rectifiers / SMA



S1A	50	1.0	100	30	1.1	1.0	5.0	50
S1B	100	1.0	100	30	1.1	1.0	5.0	100
S1D	200	1.0	100	30	1.1	1.0	5.0	200
S1G	400	1.0	100	30	1.1	1.0	5.0	400
S1J	600	1.0	100	30	1.1	1.0	5.0	600
S1K	800	1.0	100	30	1.1	1.0	5.0	800
S1M	1000	1.0	100	30	1.1	1.0	5.0	1000

## 1.0A Standard Recovery Glass Passivated Rectifiers / SMB



S1AB	50	1.0	100	30	1.1	1.0	5.0	50
S1BB	100	1.0	100	30	1.1	1.0	5.0	100
S1DB	200	1.0	100	30	1.1	1.0	5.0	200
S1GB	400	1.0	100	30	1.1	1.0	5.0	400
S1JB	600	1.0	100	30	1.1	1.0	5.0	600
S1KB	800	1.0	100	30	1.1	1.0	5.0	800
S1MB	1000	1.0	100	30	1.1	1.0	5.0	1000

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current (†)		Max. Peak Forward Surge Current (†)	Forward Voltage Drop		Max. Reverse Current (†)	
		$V_{RRM}$	$I_O @ T_A$		$I_{FSM}$	$V_F @ I_F$	$I_R @ V_R$	
	V	A	°C	A	V	A	μA	V

### 1.0A Standard Recovery Glass Passivated Rectifiers / T-1



D1G	50	1.0	75	30	1.0	1.0	5.0	50
D2G	100	1.0	75	30	1.0	1.0	5.0	100
D3G	200	1.0	75	30	1.0	1.0	5.0	200
D4G	400	1.0	75	30	1.0	1.0	5.0	400
D5G	600	1.0	75	30	1.0	1.0	5.0	600
D6G	800	1.0	75	30	1.0	1.0	5.0	800
D7G	1000	1.0	75	30	1.0	1.0	5.0	1000

### 1.0A Standard Recovery Rectifiers / DO-41



1N4001	50	1.0	75	30	1.0	1.0	5.0	50
1N4002	100	1.0	75	30	1.0	1.0	5.0	100
1N4003	200	1.0	75	30	1.0	1.0	5.0	200
1N4004	400	1.0	75	30	1.0	1.0	5.0	400
1N4005	600	1.0	75	30	1.0	1.0	5.0	600
1N4006	800	1.0	75	30	1.0	1.0	5.0	800
1N4007	1000	1.0	75	30	1.0	1.0	5.0	1000

### 1.0A Standard Recovery Glass Passivated Rectifiers / DO-41



1N4001G	50	1.0	75	30	1.0	1.0	5.0	50
1N4002G	100	1.0	75	30	1.0	1.0	5.0	100
1N4003G	200	1.0	75	30	1.0	1.0	5.0	200
1N4004G	400	1.0	75	30	1.0	1.0	5.0	400
1N4005G	600	1.0	75	30	1.0	1.0	5.0	600
1N4006G	800	1.0	75	30	1.0	1.0	5.0	800
1N4007G	1000	1.0	75	30	1.0	1.0	5.0	1000

### 1.0A Standard Recovery Rectifiers / A-405



1N4001L	50	1.0	75	30	1.0	1.0	5.0	50
1N4002L	100	1.0	75	30	1.0	1.0	5.0	100
1N4003L	200	1.0	75	30	1.0	1.0	5.0	200
1N4004L	400	1.0	75	30	1.0	1.0	5.0	400
1N4005L	600	1.0	75	30	1.0	1.0	5.0	600
1N4006L	800	1.0	75	30	1.0	1.0	5.0	800
1N4007L	1000	1.0	75	30	1.0	1.0	5.0	1000

### 1.0A Standard Recovery Glass Passivated Rectifiers / A-405



1N4001GL	50	1.0	75	30	1.0	1.0	5.0	50
1N4002GL	100	1.0	75	30	1.0	1.0	5.0	100
1N4003GL	200	1.0	75	30	1.0	1.0	5.0	200
1N4004GL	400	1.0	75	30	1.0	1.0	5.0	400
1N4005GL	600	1.0	75	30	1.0	1.0	5.0	600
1N4006GL	800	1.0	75	30	1.0	1.0	5.0	800
1N4007GL	1000	1.0	75	30	1.0	1.0	5.0	1000

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current (†)		Max. Peak Forward Surge Current (†)	Forward Voltage Drop		Max. Reverse Current (†)	
	$V_{RRM}$	$I_O @ T_A$		$I_{FSM}$	$V_F @ I_F$		$I_R @ V_R$	
	V	A	°C	A	V	A	μA	V

### 1.5A Standard Recovery Glass Passivated Rectifiers / SMA



S2AA	50	1.5	100*	50	1.15	1.5	5.0	50
S2BA	100	1.5	100*	50	1.15	1.5	5.0	100
S2DA	200	1.5	100*	50	1.15	1.5	5.0	200
S2GA	400	1.5	100*	50	1.15	1.5	5.0	400
S2JA	600	1.5	100*	50	1.15	1.5	5.0	600
S2KA	800	1.5	100*	50	1.15	1.5	5.0	800
S2MA	1000	1.5	100*	50	1.15	1.5	5.0	1000

\*  $T_T$ , Terminal Temperature

### 1.5A Standard Recovery Glass Passivated Rectifiers / SMB



S2A	50	1.5	100*	50	1.15	1.5	5.0	50
S2B	100	1.5	100*	50	1.15	1.5	5.0	100
S2D	200	1.5	100*	50	1.15	1.5	5.0	200
S2G	400	1.5	100*	50	1.15	1.5	5.0	400
S2J	600	1.5	100*	50	1.15	1.5	5.0	600
S2K	800	1.5	100*	50	1.15	1.5	5.0	800
S2M	1000	1.5	100*	50	1.15	1.5	5.0	1000

\*  $T_T$ , Terminal Temperature

### 1.5A Standard Recovery Rectifiers / DO-15



1N5391	50	1.5	70	50	1.1	1.5	5.0	50
1N5392	100	1.5	70	50	1.1	1.5	5.0	100
1N5393	200	1.5	70	50	1.1	1.5	5.0	200
1N5395	400	1.5	70	50	1.1	1.5	5.0	400
1N5397	600	1.5	70	50	1.1	1.5	5.0	600
1N5398	800	1.5	70	50	1.1	1.5	5.0	800
1N5399	1000	1.5	70	50	1.1	1.5	5.0	1000

### 1.5A Standard Recovery Glass Passivated Rectifiers / DO-15



1N5391G	50	1.5	55	50	1.1	1.5	5.0	50
1N5392G	100	1.5	55	50	1.1	1.5	5.0	100
1N5393G	200	1.5	55	50	1.1	1.5	5.0	200
1N5395G	400	1.5	55	50	1.1	1.5	5.0	400
1N5397G	600	1.5	55	50	1.1	1.5	5.0	600
1N5398G	800	1.5	55	50	1.1	1.5	5.0	800
1N5399G	1000	1.5	55	50	1.1	1.5	5.0	1000

### 1.5A Standard Recovery Rectifiers / DO-41



1N5391S	50	1.5	70	50	1.1	1.5	5.0	50
1N5392S	100	1.5	70	50	1.1	1.5	5.0	100
1N5393S	200	1.5	70	50	1.1	1.5	5.0	200
1N5395S	400	1.5	70	50	1.1	1.5	5.0	400
1N5397S	600	1.5	70	50	1.1	1.5	5.0	600
1N5398S	800	1.5	70	50	1.1	1.5	5.0	800
1N5399S	1000	1.5	70	50	1.1	1.5	5.0	1000

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current (†)		Max. Peak Forward Surge Current (†)	Forward Voltage Drop		Max. Reverse Current (†)		
		$I_O @ T_T$	$I_{FSM}$		$V_F @ I_F$	$I_R @ V_R$			
	$V_{RRM}$	V	A	$^{\circ}\text{C}$	A	V	A	$\mu\text{A}$	V
<b>2.0A Standard Recovery Rectifiers / DO-15</b>									
2A01	50	2.0	55*	70	1.1	2.0	5.0	50	
2A02	100	2.0	55*	70	1.1	2.0	5.0	100	
2A03	200	2.0	55*	70	1.1	2.0	5.0	200	
2A04	400	2.0	55*	70	1.1	2.0	5.0	400	
2A05	600	2.0	55*	70	1.1	2.0	5.0	600	
2A06	800	2.0	55*	70	1.1	2.0	5.0	800	
2A07	1000	2.0	55*	70	1.1	2.0	5.0	1000	



<b>2.0A Standard Recovery Glass Passivated Rectifiers / DO-15</b>									
2A01G	50	2.0	55*	65	1.1	2.0	5.0	50	
2A02G	100	2.0	55*	65	1.1	2.0	5.0	100	
2A03G	200	2.0	55*	65	1.1	2.0	5.0	200	
2A04G	400	2.0	55*	65	1.1	2.0	5.0	400	
2A05G	600	2.0	55*	65	1.1	2.0	5.0	600	
2A06G	800	2.0	55*	65	1.1	2.0	5.0	800	
2A07G	1000	2.0	55*	65	1.1	2.0	5.0	1000	



<b>3.0A Standard Recovery Glass Passivated Rectifiers / SMB</b>									
S3AB	50	3.0	75	100	1.15	3.0	10	50	
S3BB	100	3.0	75	100	1.15	3.0	10	100	
S3DB	200	3.0	75	100	1.15	3.0	10	200	
S3GB	400	3.0	75	100	1.15	3.0	10	400	
S3JB	600	3.0	75	100	1.15	3.0	10	600	
S3KB	800	3.0	75	100	1.15	3.0	10	800	
S3MB	1000	3.0	75	100	1.15	3.0	10	1000	



<b>3.0A Standard Recovery Glass Passivated Rectifiers / SMC</b>									
S3A	50	3.0	75	100	1.15	3.0	10	50	
S3B	100	3.0	75	100	1.15	3.0	10	100	
S3D	200	3.0	75	100	1.15	3.0	10	200	
S3G	400	3.0	75	100	1.15	3.0	10	400	
S3J	600	3.0	75	100	1.15	3.0	10	600	
S3K	800	3.0	75	100	1.15	3.0	10	800	
S3M	1000	3.0	75	100	1.15	3.0	10	1000	



\*  $T_A$ , Ambient Temperature

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current (†)		Max. Peak Forward Surge Current (†)	Forward Voltage Drop		Max. Reverse Current (†)	
	$V_{RRM}$	$I_O @ T_A$		$I_{FSM}$	$V_F @ I_F$		$I_R @ V_R$	
	V	A	°C	A	V	A	μA	V

### 3.0A Standard Recovery Rectifiers / DO-201AD



1N5400	50	3.0	105	200	1.0	3.0	10	50
1N5401	100	3.0	105	200	1.0	3.0	10	100
1N5402	200	3.0	105	200	1.0	3.0	10	200
1N5404	400	3.0	105	200	1.0	3.0	10	400
1N5406	600	3.0	105	200	1.0	3.0	10	600
1N5407	800	3.0	105	200	1.0	3.0	10	800
1N5408	1000	3.0	105	200	1.0	3.0	10	1000

### 3.0A Standard Recovery Glass Passivated Rectifiers / DO-201AD



1N5400G	50	3.0	55	125	1.1	3.0	5.0	50
1N5401G	100	3.0	55	125	1.1	3.0	5.0	100
1N5402G	200	3.0	55	125	1.1	3.0	5.0	200
1N5404G	400	3.0	55	125	1.1	3.0	5.0	400
1N5406G	600	3.0	55	125	1.1	3.0	5.0	600
1N5407G	800	3.0	55	125	1.1	3.0	5.0	800
1N5408G	1000	3.0	55	125	1.1	3.0	5.0	1000

### 5.0A Standard Recovery Glass Passivated Rectifiers / POWERMITE® 3 NEW



SM5J NEW	600	5.0	137*	150	1.2	5.0	10	600
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\*  $T_S$ , Soldering Point Temperature

### 5.0A Standard Recovery Glass Passivated Rectifiers / SMC



S5AC	50	5.0	75*	100	1.15	5.0	10	50
S5BC	100	5.0	75*	100	1.15	5.0	10	100
S5DC	200	5.0	75*	100	1.15	5.0	10	200
S5GC	400	5.0	75*	100	1.15	5.0	10	400
S5JC	600	5.0	75*	100	1.15	5.0	10	600
S5KC	800	5.0	75*	100	1.15	5.0	10	800
S5MC	1000	5.0	75*	100	1.15	5.0	10	1000

\*  $T_T$ , Terminal Temperature

### 6.0A/10A Standard Recovery Rectifiers / R-6



6A05	50	6.0	75	400	0.9	6.0	10	50
6A1	100	6.0	75	400	0.9	6.0	10	100
6A2	200	6.0	75	400	0.9	6.0	10	200
6A4	400	6.0	75	400	0.9	6.0	10	400
6A6	600	6.0	75	400	0.9	6.0	10	600
6A8	800	6.0	75	400	0.9	6.0	10	800
6A10	1000	6.0	75	400	0.9	6.0	10	1000
10A01	50	10	50	600	1.0	10	10	50
10A02	100	10	50	600	1.0	10	10	100
10A03	200	10	50	600	1.0	10	10	200
10A04	400	10	50	600	1.0	10	10	400
10A05	600	10	50	600	1.0	10	10	600
10A06	800	10	50	600	1.0	10	10	800
10A07	1000	10	50	600	1.0	10	10	1000

(†) Reference product datasheet for specific test conditions.

POWERMITE is a registered trademark of MicroSemi Corporation.



# Bridge Rectifiers

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Type Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current (†)		Max. Peak Forward Surge Current (†)	Forward Voltage Drop		Max. Reverse Current (†)	
	$V_{RRM}$	$I_O @ T_A$		$I_{FSM}$	$V_F @ I_F$		$I_R @ V_R$	
	V	A	°C	A	V	A	μA	V

## 0.35A Schottky Barrier Diode Arrays / SOT-26\*\*

SD103ASDM 	40	0.35*	25	1.5	0.6	0.2	5	30
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\*\* Can be used in a bridge configuration when PC board is laid out appropriately. See Page 2-5, Figure 11.

## 0.8A Glass Passivated Bridge Rectifiers / MiniDIP

HD01	100	0.8	40	30	1.0	0.4	5.0	100
HD02	200	0.8	40	30	1.0	0.4	5.0	200
HD04	400	0.8	40	30	1.0	0.4	5.0	400
HD06	600	0.8	40	30	1.0	0.4	5.0	600

## 1.0A Glass Passivated Bridge Rectifiers / DF-S

DF005S	50	1.0	40	50	1.1	1.0	10	50
DF01S	100	1.0	40	50	1.1	1.0	10	100
DF02S	200	1.0	40	50	1.1	1.0	10	200
DF04S	400	1.0	40	50	1.1	1.0	10	400
DF06S	600	1.0	40	50	1.1	1.0	10	600
DF08S	800	1.0	40	50	1.1	1.0	10	800
DF10S	1000	1.0	40	50	1.1	1.0	10	1000

## 1.0A Glass Passivated Bridge Rectifiers / DF-M

DF005M	50	1.0	40	50	1.1	1.0	10	50
DF01M	100	1.0	40	50	1.1	1.0	10	100
DF02M	200	1.0	40	50	1.1	1.0	10	200
DF04M	400	1.0	40	50	1.1	1.0	10	400
DF06M	600	1.0	40	50	1.1	1.0	10	600
DF08M	800	1.0	40	50	1.1	1.0	10	800
DF10M	1000	1.0	40	50	1.1	1.0	10	1000

## 1.5A Glass Passivated Bridge Rectifiers / DF-S

DF15005S	50	1.5	40	50	1.1	1.5	10	50
DF1501S	100	1.5	40	50	1.1	1.5	10	100
DF1502S	200	1.5	40	50	1.1	1.5	10	200
DF1504S	400	1.5	40	50	1.1	1.5	10	400
DF1506S	600	1.5	40	50	1.1	1.5	10	600
DF1508S	800	1.5	40	50	1.1	1.5	10	800
DF1510S	1000	1.5	40	50	1.1	1.5	10	1000

\* Forward Continuous Current,  $I_{FM}$

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current (†)		Max. Peak Forward Surge Current (†)	Forward Voltage Drop		Max. Reverse Current (†)	
		$V_{RRM}$	$I_O @ T_A$		$I_{FSM}$	$V_F @ I_F$	$I_R @ V_R$	
	V	A	°C	A	V	A	μA	V

### 1.5A Glass Passivated Bridge Rectifiers / DF-M



DF15005M	50	1.5	40	50	1.1	1.5	10	50
DF1501M	100	1.5	40	50	1.1	1.5	10	100
DF1502M	200	1.5	40	50	1.1	1.5	10	200
DF1504M	400	1.5	40	50	1.1	1.5	10	400
DF1506M	600	1.5	40	50	1.1	1.5	10	600
DF1508M	800	1.5	40	50	1.1	1.5	10	800
DF1510M	1000	1.5	40	50	1.1	1.5	10	1000

### 1.5A Glass Passivated Bridge Rectifiers / WOG



W005G	50	1.5	25	50	1.0	1.5	5.0	50
W01G	100	1.5	25	50	1.0	1.5	5.0	100
W02G	200	1.5	25	50	1.0	1.5	5.0	200
W04G	400	1.5	25	50	1.0	1.5	5.0	400
W06G	600	1.5	25	50	1.0	1.5	5.0	600
W08G	800	1.5	25	50	1.0	1.5	5.0	800
W10G	1000	1.5	25	50	1.0	1.5	5.0	1000

### 1.5A Glass Passivated Bridge Rectifiers / KBP



KBP005G	50	1.5	105*	40	1.1	1.5	5.0	50
KBP01G	100	1.5	105*	40	1.1	1.5	5.0	100
KBP02G	200	1.5	105*	40	1.1	1.5	5.0	200
KBP04G	400	1.5	105*	40	1.1	1.5	5.0	400
KBP06G	600	1.5	105*	40	1.1	1.5	5.0	600
KBP08G	800	1.5	105*	40	1.1	1.5	5.0	800
KBP10G	1000	1.5	105*	40	1.1	1.5	5.0	1000

\*  $T_C$ , Case temperature

### 2.0A Glass Passivated Bridge Rectifiers / WOG



2W005G	50	2.0	25	60	1.1	2.0	5.0	50
2W01G	100	2.0	25	60	1.1	2.0	5.0	100
2W02G	200	2.0	25	60	1.1	2.0	5.0	200
2W04G	400	2.0	25	60	1.1	2.0	5.0	400
2W06G	600	2.0	25	60	1.1	2.0	5.0	600
2W08G	800	2.0	25	60	1.1	2.0	5.0	800
2W10G	1000	2.0	25	60	1.1	2.0	5.0	1000

### 2.0A Glass Passivated Bridge Rectifiers / KBP



KBP2005G	50	2.0	105*	65	1.1	2.0	5.0	50
KBP201G	100	2.0	105*	65	1.1	2.0	5.0	100
KBP202G	200	2.0	105*	65	1.1	2.0	5.0	200
KBP204G	400	2.0	105*	65	1.1	2.0	5.0	400
KBP206G	600	2.0	105*	65	1.1	2.0	5.0	600
KBP208G	800	2.0	105*	65	1.1	2.0	5.0	800
KBP210G	1000	2.0	105*	65	1.1	2.0	5.0	1000

\*  $T_C$ , Case temperature

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current (†)		Max. Peak Forward Surge Current (†)	Forward Voltage Drop		Max. Reverse Current (†)	
	$V_{RRM}$	$I_O @ T_C$		$I_{FSM}$	$V_F @ I_F$		$I_R @ V_R$	
	V	A	°C	A	V	A	µA	V
<b>3.0A Bridge Rectifiers / PBPC-3</b>								
PBPC301	50	3.0	50	50	1.2	1.5	10	50
PBPC302	100	3.0	50	50	1.2	1.5	10	100
PBPC303	200	3.0	50	50	1.2	1.5	10	200
PBPC304	400	3.0	50	50	1.2	1.5	10	400
PBPC305	600	3.0	50	50	1.2	1.5	10	600
PBPC306	800	3.0	50	50	1.2	1.5	10	800
PBPC307	1000	3.0	50	50	1.2	1.5	10	1000
<b>4.0A Glass Passivated Bridge Rectifiers / KBJ</b>								
KBJ4005G	50	4.0	115	120	1.0	2.0	5.0	50
KBJ401G	100	4.0	115	120	1.0	2.0	5.0	100
KBJ402G	200	4.0	115	120	1.0	2.0	5.0	200
KBJ404G	400	4.0	115	120	1.0	2.0	5.0	400
KBJ406G	600	4.0	115	120	1.0	2.0	5.0	600
KBJ408G	800	4.0	115	120	1.0	2.0	5.0	800
KBJ410G	1000	4.0	115	120	1.0	2.0	5.0	1000
<b>4.0A Glass Passivated Bridge Rectifiers / GBU</b>								
GBU4005	50	4.0	100	150	1.0	2.0	5.0	50
GBU401	100	4.0	100	150	1.0	2.0	5.0	100
GBU402	200	4.0	100	150	1.0	2.0	5.0	200
GBU404	400	4.0	100	150	1.0	2.0	5.0	400
GBU406	600	4.0	100	150	1.0	2.0	5.0	600
GBU408	800	4.0	100	150	1.0	2.0	5.0	800
GBU410	1000	4.0	100	150	1.0	2.0	5.0	1000
<b>6.0A Glass Passivated Bridge Rectifiers / KBJ</b>								
KBJ6005G	50	6.0	110	170	1.0	3.0	5.0	50
KBJ601G	100	6.0	110	170	1.0	3.0	5.0	100
KBJ602G	200	6.0	110	170	1.0	3.0	5.0	200
KBJ604G	400	6.0	110	170	1.0	3.0	5.0	400
KBJ606G	600	6.0	110	170	1.0	3.0	5.0	600
KBJ608G	800	6.0	110	170	1.0	3.0	5.0	800
KBJ610G	1000	6.0	110	170	1.0	3.0	5.0	1000
<b>6.0A Glass Passivated Bridge Rectifiers / GBJ</b>								
GBJ6005	50	6.0	110	170	1.0	3.0	5.0	50
GBJ601	100	6.0	110	170	1.0	3.0	5.0	100
GBJ602	200	6.0	110	170	1.0	3.0	5.0	200
GBJ604	400	6.0	110	170	1.0	3.0	5.0	400
GBJ606	600	6.0	110	170	1.0	3.0	5.0	600
GBJ608	800	6.0	110	170	1.0	3.0	5.0	800
GBJ610	1000	6.0	110	170	1.0	3.0	5.0	1000

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current (†)		Max. Peak Forward Surge Current (†)	Forward Voltage Drop		Max. Reverse Current (†)	
		$I_{O @ T_C}$	$I_{FSM}$		$V_F @ I_F$	$I_R @ V_R$		
	$V_{RRM}$	A	°C	A	V	A	μA	V

### 6.0A Glass Passivated Bridge Rectifiers / GBU



<b>GBU6005</b>	50	6.0	100	175	1.0	3.0	5.0	50
<b>GBU601</b>	100	6.0	100	175	1.0	3.0	5.0	100
<b>GBU602</b>	200	6.0	100	175	1.0	3.0	5.0	200
<b>GBU604</b>	400	6.0	100	175	1.0	3.0	5.0	400
<b>GBU606</b>	600	6.0	100	175	1.0	3.0	5.0	600
<b>GBU608</b>	800	6.0	100	175	1.0	3.0	5.0	800
<b>GBU610</b>	1000	6.0	100	175	1.0	3.0	5.0	1000

### 6.0A Bridge Rectifiers / PBPC-3



<b>PBPC601</b>	50	6.0	50	125	1.1	3.0	10	50
<b>PBPC602</b>	100	6.0	50	125	1.1	3.0	10	100
<b>PBPC603</b>	200	6.0	50	125	1.1	3.0	10	200
<b>PBPC604</b>	400	6.0	50	125	1.1	3.0	10	400
<b>PBPC605</b>	600	6.0	50	125	1.1	3.0	10	600
<b>PBPC606</b>	800	6.0	50	125	1.1	3.0	10	800
<b>PBPC607</b>	1000	6.0	50	125	1.1	3.0	10	1000

### 8.0A Glass Passivated Bridge Rectifiers / GBJ



<b>GBJ8005</b>	50	8.0	110	170	1.0	4.0	5.0	50
<b>GBJ801</b>	100	8.0	110	170	1.0	4.0	5.0	100
<b>GBJ802</b>	200	8.0	110	170	1.0	4.0	5.0	200
<b>GBJ804</b>	400	8.0	110	170	1.0	4.0	5.0	400
<b>GBJ806</b>	600	8.0	110	170	1.0	4.0	5.0	600
<b>GBJ808</b>	800	8.0	110	170	1.0	4.0	5.0	800
<b>GBJ810</b>	1000	8.0	110	170	1.0	4.0	5.0	1000

### 8.0A Glass Passivated Bridge Rectifiers / GBU



<b>GBU8005</b>	50	8.0	100	200	1.0	4.0	5.0	50
<b>GBU801</b>	100	8.0	100	200	1.0	4.0	5.0	100
<b>GBU802</b>	200	8.0	100	200	1.0	4.0	5.0	200
<b>GBU804</b>	400	8.0	100	200	1.0	4.0	5.0	400
<b>GBU806</b>	600	8.0	100	200	1.0	4.0	5.0	600
<b>GBU808</b>	800	8.0	100	200	1.0	4.0	5.0	800
<b>GBU810</b>	1000	8.0	100	200	1.0	4.0	5.0	1000

### 8.0A Bridge Rectifiers / PBPC-8



<b>PBPC801</b>	50	8.0	50	125	1.1	4.0	10	50
<b>PBPC802</b>	100	8.0	50	125	1.1	4.0	10	100
<b>PBPC803</b>	200	8.0	50	125	1.1	4.0	10	200
<b>PBPC804</b>	400	8.0	50	125	1.1	4.0	10	400
<b>PBPC805</b>	600	8.0	50	125	1.1	4.0	10	600
<b>PBPC806</b>	800	8.0	50	125	1.1	4.0	10	800
<b>PBPC807</b>	1000	8.0	50	125	1.1	4.0	10	1000

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current (†)		Max. Peak Forward Surge Current (†)	Forward Voltage Drop		Max. Reverse Current (†)	
	$V_{RRM}$	$I_O @ T_c$		$I_{FSM}$	$V_F @ I_F$		$I_R @ V_R$	
	V	A	°C	A	V	A	μA	V

### 10A Glass Passivated Bridge Rectifiers / GBJ



GBJ10005	50	10	110	170	1.05	5.0	10	50
GBJ1001	100	10	110	170	1.05	5.0	10	100
GBJ1002	200	10	110	170	1.05	5.0	10	200
GBJ1004	400	10	110	170	1.05	5.0	10	400
GBJ1006	600	10	110	170	1.05	5.0	10	600
GBJ1008	800	10	110	170	1.05	5.0	10	800
GBJ1010	1000	10	110	170	1.05	5.0	10	1000

### 10A Glass Passivated Bridge Rectifiers / GBU



GBU10005	50	10	100	220	1.0	5.0	5.0	50
GBU1001	100	10	100	220	1.0	5.0	5.0	100
GBU1002	200	10	100	220	1.0	5.0	5.0	200
GBU1004	400	10	100	220	1.0	5.0	5.0	400
GBU1006	600	10	100	220	1.0	5.0	5.0	600
GBU1008	800	10	100	220	1.0	5.0	5.0	800
GBU1010	1000	10	100	220	1.0	5.0	5.0	1000

### 10A Bridge Rectifiers / PBPC-8



PBPC1001	50	10	50	150	1.1	5.0	10	50
PBPC1002	100	10	50	150	1.1	5.0	10	100
PBPC1003	200	10	50	150	1.1	5.0	10	200
PBPC1004	400	10	50	150	1.1	5.0	10	400
PBPC1005	600	10	50	150	1.1	5.0	10	600
PBPC1006	800	10	50	150	1.1	5.0	10	800
PBPC1007	1000	10	50	150	1.1	5.0	10	1000

### 15A Glass Passivated Bridge Rectifiers / GBJ



GBJ15005	50	15	100	240	1.05	7.5	10	50
GBJ1501	100	15	100	240	1.05	7.5	10	100
GBJ1502	200	15	100	240	1.05	7.5	10	200
GBJ1504	400	15	100	240	1.05	7.5	10	400
GBJ1506	600	15	100	240	1.05	7.5	10	600
GBJ1508	800	15	100	240	1.05	7.5	10	800
GBJ1510	1000	15	100	240	1.05	7.5	10	1000

### 15A Glass Passivated Bridge Rectifiers / GBPC



GBPC15005	50	15	70	300	1.1	7.5	5.0	50
GBPC1501	100	15	70	300	1.1	7.5	5.0	100
GBPC1502	200	15	70	300	1.1	7.5	5.0	200
GBPC1504	400	15	70	300	1.1	7.5	5.0	400
GBPC1506	600	15	70	300	1.1	7.5	5.0	600
GBPC1508	800	15	70	300	1.1	7.5	5.0	800
GBPC1510	1000	15	70	300	1.1	7.5	5.0	1000

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current (†)		Max. Peak Forward Surge Current (†)	Forward Voltage Drop		Max. Reverse Current (†)	
	$V_{RRM}$	$I_O @ T_C$		$I_{FSM}$	$V_F @ I_F$		$I_R @ V_R$	
	V	A	°C	A	V	A	μA	V

### 15A Glass Passivated Bridge Rectifiers / GBPC-W



GBPC15005W	50	15	70	300	1.1	7.5	5.0	50
GBPC1501W	100	15	70	300	1.1	7.5	5.0	100
GBPC1502W	200	15	70	300	1.1	7.5	5.0	200
GBPC1504W	400	15	70	300	1.1	7.5	5.0	400
GBPC1506W	600	15	70	300	1.1	7.5	5.0	600
GBPC1508W	800	15	70	300	1.1	7.5	5.0	800
GBPC1510W	1000	15	70	300	1.1	7.5	5.0	1000

### 20A Glass Passivated Bridge Rectifiers / GBJ



GBJ20005	50	20	110	240	1.05	10	10	50
GBJ2001	100	20	110	240	1.05	10	10	100
GBJ2002	200	20	110	240	1.05	10	10	200
GBJ2004	400	20	110	240	1.05	10	10	400
GBJ2006	600	20	110	240	1.05	10	10	600
GBJ2008	800	20	110	240	1.05	10	10	800
GBJ2010	1000	20	110	240	1.05	10	10	1000

### 25A Glass Passivated Bridge Rectifiers / GBJ



GBJ25005	50	25	100	350	1.05	12.5	10	50
GBJ2501	100	25	100	350	1.05	12.5	10	100
GBJ2502	200	25	100	350	1.05	12.5	10	200
GBJ2504	400	25	100	350	1.05	12.5	10	400
GBJ2506	600	25	100	350	1.05	12.5	10	600
GBJ2508	800	25	100	350	1.05	12.5	10	800
GBJ2510	1000	25	100	350	1.05	12.5	10	1000

### 25A Glass Passivated Bridge Rectifiers / GBPC



GBPC25005	50	25	60	300	1.1	12.5	5.0	50
GBPC2501	100	25	60	300	1.1	12.5	5.0	100
GBPC2502	200	25	60	300	1.1	12.5	5.0	200
GBPC2504	400	25	60	300	1.1	12.5	5.0	400
GBPC2506	600	25	60	300	1.1	12.5	5.0	600
GBPC2508	800	25	60	300	1.1	12.5	5.0	800
GBPC2510	1000	25	60	300	1.1	12.5	5.0	1000

### 25A Glass Passivated Bridge Rectifiers / GBPC-W



GBPC25005W	50	25	60	300	1.1	12.5	5.0	50
GBPC2501W	100	25	60	300	1.1	12.5	5.0	100
GBPC2502W	200	25	60	300	1.1	12.5	5.0	200
GBPC2504W	400	25	60	300	1.1	12.5	5.0	400
GBPC2506W	600	25	60	300	1.1	12.5	5.0	600
GBPC2508W	800	25	60	300	1.1	12.5	5.0	800
GBPC2510W	1000	25	60	300	1.1	12.5	5.0	1000

(†) Reference product datasheet for specific test conditions.

Type Number	Peak Repetitive Reverse Voltage	Max. Average Rectified Current (†)		Max. Peak Forward Surge Current (†)	Forward Voltage Drop		Max. Reverse Current (†)	
	$V_{RRM}$	$I_O @ T_c$		$I_{FSM}$	$V_F @ I_F$		$I_R @ V_R$	
	V	A	°C	A	V	A	µA	V
<b>35A Glass Passivated Bridge Rectifiers / GBPC</b>								
GBPC35005	50	35	50	400	1.1	17.5	5.0	50
GBPC3501	100	35	50	400	1.1	17.5	5.0	100
GBPC3502	200	35	50	400	1.1	17.5	5.0	200
GBPC3504	400	35	50	400	1.1	17.5	5.0	400
GBPC3506	600	35	50	400	1.1	17.5	5.0	600
GBPC3508	800	35	50	400	1.1	17.5	5.0	800
GBPC3510	1000	35	50	400	1.1	17.5	5.0	1000
<b>35A Glass Passivated Bridge Rectifiers / GBPC-W</b>								
GBPC35005W	50	35	50	400	1.1	17.5	5.0	50
GBPC3501W	100	35	50	400	1.1	17.5	5.0	100
GBPC3502W	200	35	50	400	1.1	17.5	5.0	200
GBPC3504W	400	35	50	400	1.1	17.5	5.0	400
GBPC3506W	600	35	50	400	1.1	17.5	5.0	600
GBPC3508W	800	35	50	400	1.1	17.5	5.0	800
GBPC3510W	1000	35	50	400	1.1	17.5	5.0	1000

(†) Reference product datasheet for specific test conditions.



# **Index**

1.5KE10(C)A, 9-9	1N4003GL, 13-2	1N4933L, 12-2	1N5391G, 13-3	2DA1774S, 4-1
1.5KE100(C)A, 9-10	1N4003L, 13-2	1N4934, 12-2	1N5391S, 13-3	2DC4617Q, 4-1
1.5KE11(C)A, 9-9	1N4004, 13-2	1N4934G, 12-2	1N5392, 13-3	2DC4617R, 4-1
1.5KE110(C)A, 9-10	1N4004G, 13-2	1N4934GL, 12-3	1N5392G, 13-3	2DC4617S, 4-1
1.5KE12(C)A, 9-9	1N4004GL, 13-2	1N4934L, 12-2	1N5392S, 13-3	2N7002, 5-1
1.5KE120(C)A, 9-10	1N4004L, 13-2	1N4935, 12-2	1N5393, 13-3	2N7002DW, 5-1
1.5KE13(C)A, 9-9	1N4005, 13-2	1N4935G, 12-2	1N5393G, 13-3	2N7002T, 5-1
1.5KE130(C)A, 9-10	1N4005G, 13-2	1N4935GL, 12-3	1N5393S, 13-3	2N7002W, 5-1
1.5KE15(C)A, 9-10	1N4005GL, 13-2	1N4935L, 12-2	1N5395, 13-3	2W005G, 14-2
1.5KE16(C)A, 9-10	1N4005L, 13-2	1N4936, 12-2	1N5395G, 13-3	2W01G, 14-2
1.5KE160(C)A, 9-10	1N4006, 13-2	1N4936G, 12-2	1N5395S, 13-3	2W02G, 14-2
1.5KE17(C)A, 9-9	1N4006G, 13-2	1N4936GL, 12-3	1N5397, 13-3	2W04G, 14-2
1.5KE18(C)A, 9-10	1N4006GL, 13-2	1N4936L, 12-2	1N5397G, 13-3	2W06G, 14-2
1.5KE19(C)A, 9-10	1N4006L, 13-2	1N4937, 12-2	1N5397S, 13-3	2W08G, 14-2
1.5KE150(C)A, 9-10	1N4007, 13-2	1N4937G, 12-2	1N5398, 13-3	2W10G, 14-2
1.5KE16(C)A, 9-10	1N4007G, 13-2	1N4937GL, 12-3	1N5398G, 13-3	6A05, 13-5
1.5KE160(C)A, 9-10	1N4007GL, 13-2	1N4937L, 12-2	1N5398S, 13-3	6A1, 13-5
1.5KE170(C)A, 9-10	1N4007L, 13-2	1N5221B, 8-20	1N5399, 13-3	6A10, 13-5
1.5KE18(C)A, 9-10	1N4148, 3-4	1N5222B, 8-20	1N5399G, 13-3	6A2, 13-5
1.5KE180(C)A, 9-10	1N4148W, 3-3	1N5223B, 8-20	1N5399S, 13-3	6A4, 13-5
1.5KE20(C)A, 9-10	1N4148WS, 3-2	1N5224B, 8-20	1N5400, 13-5	6A6, 13-5
1.5KE200(C)A, 9-10	1N4150, 3-4	1N5225B, 8-20	1N5400G, 13-5	6A8, 13-5
1.5KE22(C)A, 9-10	1N4151, 3-4	1N5226B, 8-20	1N5401, 13-5	
1.5KE220(C)A, 9-10	1N4154, 3-4	1N5227B, 8-20	1N5401G, 13-5	
1.5KE24(C)A, 9-10	1N4448, 3-4	1N5228B, 8-20	1N5402, 13-5	<b>A</b>
1.5KE250(C)A, 9-10	1N4448HWS, 3-2	1N5229B, 8-20	1N5402G, 13-5	
1.5KE27(C)A, 9-10	1N4448W, 3-3	1N5230B, 8-20	1N5404, 13-5	
1.5KE30(C)A, 9-10	1N4448WS, 3-2	1N5231B, 8-20	1N5404G, 13-5	AZ23C10, 8-12
1.5KE300(C)A, 9-10	1N4728A, 8-23	1N5232B, 8-20	1N5406, 13-5	AZ23C10W, 8-9
1.5KE33(C)A, 9-10	1N4729A, 8-23	1N5233B, 8-20	1N5406G, 13-5	AZ23C11, 8-12
1.5KE350(C)A, 9-10	1N4730A, 8-23	1N5234B, 8-20	1N5407, 13-5	AZ23C12, 8-12
1.5KE36(C)A, 9-10	1N4731A, 8-23	1N5235B, 8-20	1N5407G, 13-5	AZ23C13, 8-12
1.5KE39(C)A, 9-10	1N4732A, 8-23	1N5236B, 8-20	1N5408, 13-5	AZ23C15, 8-12
1.5KE400(C)A, 9-10	1N4733A, 8-23	1N5237B, 8-20	1N5408G, 13-5	AZ23C16, 8-12
1.5KE43(C)A, 9-10	1N4734A, 8-23	1N5238B, 8-20	1N5711, 2-5	AZ23C18, 8-12
1.5KE47(C)A, 9-10	1N4735A, 8-23	1N5239B, 8-20	1N5711W, 2-3	AZ23C18W, 8-9
1.5KE51(C)A, 9-10	1N4736A, 8-23	1N5240B, 8-20	1N5711WS, 2-2	AZ23C20, 8-12
1.5KE56(C)A, 9-10	1N4737A, 8-23	1N5241B, 8-20	1N5817, 10-1	AZ23C22, 8-12
1.5KE6.8(C)A, 9-9	1N4738A, 8-23	1N5242B, 8-20	1N5817M, 2-7	AZ23C24, 8-12
1.5KE62(C)A, 9-10	1N4739A, 8-23	1N5243B, 8-20	1N5818, 10-1	AZ23C27, 8-12
1.5KE68(C)A, 9-10	1N4740A, 8-23	1N5244B, 8-20	1N5818M, 2-7	AZ23C2V7, 8-12
1.5KE7.5(C)A, 9-9	1N4741A, 8-23	1N5245B, 8-20	1N5819, 10-1	AZ23C30, 8-12
1.5KE75(C)A, 9-10	1N4742A, 8-23	1N5246B, 8-20	1N5819HW, 2-6	AZ23C33, 8-12
1.5KE8.2(C)A, 9-9	1N4743A, 8-23	1N5247B, 8-20	1N5819M, 2-7	AZ23C36, 8-12
1.5KE82(C)A, 9-10	1N4744A, 8-23	1N5248B, 8-20	1N5820, 10-1	AZ23C39, 8-12
1.5KE9.1(C)A, 9-9	1N4745A, 8-23	1N5249B, 8-20	1N5821, 10-1	AZ23C3V0, 8-12
1.5KE91(C)A, 9-10	1N4746A, 8-23	1N5250B, 8-20	1N5822, 10-1	AZ23C3V3, 8-12
10A01, 13-5	1N4747A, 8-23	1N5251B, 8-20	1N6263, 2-5	AZ23C3V6, 8-12
10A02, 13-5	1N4748A, 8-23	1N5252B, 8-20	1N6263W, 2-4	AZ23C3V9, 8-12
10A03, 13-5	1N4749A, 8-23	1N5253B, 8-20	2A01, 13-4	AZ23C43, 8-12
10A04, 13-5	1N4750A, 8-23	1N5254B, 8-20	2A01G, 13-4	AZ23C47, 8-12
10A05, 13-5	1N4751A, 8-23	1N5255B, 8-20	2A02, 13-4	AZ23C4V3, 8-12
10A06, 13-5	1N4752A, 8-23	1N5256B, 8-20	2A02G, 13-4	AZ23C4V7, 8-12
10A07, 13-5	1N4753A, 8-23	1N5257B, 8-20	2A03, 13-4	AZ23C51, 8-12
1N4001, 13-2	1N4754A, 8-23	1N5258B, 8-21	2A03G, 13-4	AZ23C5V1, 8-12
1N4001G, 13-2	1N4755A, 8-23	1N5259B, 8-21	2A04, 13-4	AZ23C5V6, 8-12
1N4001GL, 13-2	1N4756A, 8-23	1N5260B, 8-21	2A04G, 13-4	AZ23C5V6W, 8-9
1N4001L, 13-2	1N4757A, 8-23	1N5261B, 8-21	2A05, 13-4	AZ23C6V2, 8-12
1N4002, 13-2	1N4758A, 8-23	1N5262B, 8-21	2A05G, 13-4	AZ23C6V8, 8-12
1N4002G, 13-2	1N4759A, 8-23	1N5263B, 8-21	2A06, 13-4	AZ23C6V8W, 8-9
1N4002GL, 13-2	1N4760A, 8-23	1N5264B, 8-21	2A06G, 13-4	AZ23C7V5, 8-12
1N4002L, 13-2	1N4761A, 8-23	1N5265B, 8-21	2A07, 13-4	AZ23C8V2, 8-12
1N4003, 13-2	1N4933, 12-2	1N5266B, 8-21	2A07G, 13-4	AZ23C9V1, 8-12
1N4003G, 13-2	1N4933G, 12-2	1N5267B, 8-21	2DA1774Q, 4-1	
	1N4933GL, 12-3	1N5391, 13-3	2DA1774R, 4-1	

---

<b>B</b>	B560C, 2-9 BAL99, 3-3 BAS116, 3-3 BAS116T, 3-1 BAS16, 3-3 BAS16T, 3-1 BAS16TW, 3-2 BAS16W, 3-1 BAS19, 3-3 BAS19W, 3-1 BAS20, 3-3 BAS20W, 3-1 BAS21, 3-3 BAS21T, 3-1 BAS21W, 3-1 BAS40, 2-3 BAS40-04, 2-3 BAS40-04T, 2-1 BAS40-05, 2-3 BAS40-05T, 2-1 BAS40-06, 2-3 BAS40-06T, 2-1 BAS40BRW, 2-3 BAS40DW-04, 2-3 BAS40DW-05, 2-3 BAS40DW-06, 2-3 BAS40T, 2-1 BAS40TW, 2-3 BAS40W, 2-1 BAS40W-04, 2-1 BAS40W-05, 2-1 BAS40W-06, 2-1 BAS70, 2-3 BAS70-04, 2-3 BAS70-04T, 2-1 BAS70-05, 2-3 BAS70-05T, 2-1 BAS70-06, 2-3 BAS70-06T, 2-1 BAS70BRW, 2-3 BAS70DW-04, 2-3 BAS70DW-05, 2-3 BAS70DW-06, 2-3 BAS70JW, 2-3 BAS70T, 2-1 BAS70TW, 2-3 BAS70W, 2-1 BAS70W-04, 2-1 BAS70W-05, 2-1 BAS70W-06, 2-1 BAT1000, 2-6 BAT400D, 2-6 BAT42, 2-5 BAT42W, 2-3 BAT42WS, 2-2 BAT43, 2-5 BAT43W, 2-3 BAT43WS, 2-2 BAT46, 2-5 BAT46W, 2-3 BAT54, 2-3 BAT54A, 2-3 BAT54ADW, 2-3 BAT54AT, 2-1 BAT54AW, 2-1	BAT54BRW, 2-3 BAT54C, 2-3 BAT54CDW, 2-3 BAT54CT, 2-1 BAT54CW, 2-1 BAT54DW, 2-3 BAT54JW, 2-3 BAT54S, 2-3 BAT54SDW, 2-3 BAT54ST, 2-1 BAT54SW, 2-1 BAT54T, 2-1 BAT54TW, 2-3 BAT54W, 2-1 BAT54WS, 2-2 BAT750, 2-6 BAV101, 3-4 BAV102, 3-4 BAV103, 3-4 BAV116W, 3-2 BAV16W, 3-3 BAV16WS, 3-2 BAV170, 3-3 BAV170T, 3-1 BAV199, 3-3 BAV199T, 3-1 BAV19W, 3-2 BAV19WS, 3-2 BAV20, 3-4 BAV20W, 3-2 BAV20WS, 3-2 BAV21, 3-4 BAV21W, 3-2 BAV21WS, 3-2 BAV23A, 3-3 BAV23C, 3-3 BAV23S, 3-3 BAV70, 3-3 BAV70DW, 3-2 BAV70T, 3-1 BAV70W, 3-1 BAV756DW, 3-2 BAV99, 3-3 BAV99BRW, 3-2 BAV99DW, 3-2 BAV99T, 3-1 BAV99W, 3-1 BAW156, 3-3 BAW156T, 3-1 BAW56, 3-3 BAW56DW, 3-2 BAW56T, 3-1 BAW56W, 3-1 BC807-16, 4-4 BC807-25, 4-4 BC807-40, 4-4 BC817-16, 4-4 BC817-25, 4-4 BC817-40, 4-4 BC846A, 4-4 BC846AW, 4-1 BC846B, 4-4 BC846BW, 4-1 BC847A, 4-4 BC847AT, 4-1	BC847AW, 4-1 BC847B, 4-4 BC847BS, 4-2 BC847BT, 4-1 BC847BW, 4-1 BC847C, 4-4 BC847CT, 4-1 BC847CW, 4-1 BC847PN, 4-3 BC848A, 4-4 BC848AW, 4-1 BC848B, 4-4 BC848BW, 4-1 BC848C, 4-4 BC848CW, 4-1 BC856A, 4-4 BC856AW, 4-2 BC856B, 4-4 BC856BW, 4-2 BC857A, 4-4 BC857AT, 4-1 BC857AW, 4-2 BC857B, 4-4 BC857BT, 4-1 BC857BW, 4-2 BC857C, 4-4 BC857CT, 4-1 BC857CW, 4-2 BC858A, 4-4 BC858AW, 4-2 BC858B, 4-4 BC858BW, 4-2 BC858C, 4-4 BC858CW, 4-2 BS870, 5-1 BSS138, 5-1 BSS138DW, 5-1 BSS138W, 5-1 BSS84, 5-1 BSS84DW, 5-1 BSS84W, 5-1 BAW156T, 3-1 BZT52C10, 8-16 BZT52C10S, 8-6 BZT52C11, 8-16 BZT52C11S, 8-6 BZT52C12, 8-16 BZT52C12S, 8-6 BZT52C13, 8-16 BZT52C13S, 8-6 BZT52C15, 8-16 BZT52C15S, 8-6 BZT52C16, 8-16 BZT52C16S, 8-6 BZT52C18, 8-16 BZT52C18S, 8-6 BZT52C20, 8-16 BZT52C20S, 8-6 BZT52C22, 8-16 BZT52C22S, 8-6 BZT52C24, 8-16 BZT52C24S, 8-6 BZT52C27, 8-16 BZT52C27S, 8-6 BZT52C2V0S, 8-6 BZT52C2V4, 8-16	BZT52C2V4S, 8-6 BZT52C2V7, 8-16 BZT52C2V7S, 8-6 BZT52C30, 8-16 BZT52C30S, 8-6 BZT52C33, 8-16 BZT52C33S, 8-6 BZT52C36, 8-16 BZT52C36S, 8-6 BZT52C39, 8-16 BZT52C39S, 8-6 BZT52C3V0, 8-16 BZT52C3V0S, 8-6 BZT52C3V3, 8-16 BZT52C3V3S, 8-6 BZT52C3V6, 8-16 BZT52C3V6S, 8-6 BZT52C3V9, 8-16 BZT52C3V9S, 8-6 BZT52C43, 8-16 BZT52C47, 8-16 BZT52C4V3, 8-16 BZT52C4V3S, 8-6 BZT52C4V7, 8-16 BZT52C4V7S, 8-6 BZT52C51, 8-16 BZT52C5V1, 8-16 BZT52C5V1S, 8-6 BZT52C5V6, 8-16 BZT52C5V6S, 8-6 BZT52C6V2, 8-16 BZT52C6V2S, 8-6 BZT52C6V8, 8-16 BZT52C6V8S, 8-6 BZT52C7V5, 8-16 BZT52C7V5S, 8-6 BZT52C8V2, 8-16 BZT52C8V2S, 8-6 BZT52C9V1, 8-16 BZT52C9V1S, 8-6 BZX84C10, 8-14 BZX84C10S, 8-3 BZX84C10T, 8-1 BZX84C10W, 8-10 BZX84C11, 8-14 BZX84C11S, 8-3 BZX84C11T, 8-1 BZX84C11W, 8-10 BZX84C12, 8-14 BZX84C12S, 8-3 BZX84C12T, 8-1 BZX84C12W, 8-10 BZX84C13, 8-14 BZX84C13S, 8-3 BZX84C13T, 8-1 BZX84C13W, 8-10 BZX84C15, 8-14 BZX84C15S, 8-3 BZX84C15T, 8-1 BZX84C15W, 8-10 BZX84C16, 8-14 BZX84C16S, 8-3 BZX84C16T, 8-1 BZX84C16W, 8-10 BZX84C18, 8-14
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BZX84C18S, 8-3	BZX84C4V7, 8-14	DDA144E, 6-3	DDTA143EE, 6-1	DDTC114ECA, 6-1
BZX84C18T, 8-1	BZX84C4V7S, 8-3	DDC114E, 6-3	DDTA143ECA, 6-1	DDTC114EUA, 6-1
BZX84C18W, 8-10	BZX84C4V7T, 8-1	DDC114T, 6-3	DDTA143EUA, 6-1	DDTC114GE, 6-1
BZX84C20, 8-14	BZX84C4V7W, 8-10	DDC114Y, 6-3	DDTA143FE, 6-1	DDTC114GCA, 6-1
BZX84C20S, 8-3	BZX84C51, 8-14	DDC123J, 6-3	DDTA143FCA, 6-1	DDTC114GUA, 6-1
BZX84C20T, 8-1	BZX84C5V1, 8-14	DDC124E, 6-3	DDTA143FUA, 6-1	DDTC114TE, 6-1
BZX84C20W, 8-10	BZX84C5V1S, 8-3	DDC143T, 6-3	DDTA143TE, 6-1	DDTC114TCA, 6-1
BZX84C22, 8-14	BZX84C5V1T, 8-1	DDC144E, 6-3	DDTA143TCA, 6-1	DDTC114TUA, 6-1
BZX84C22S, 8-3	BZX84C5V1W, 8-10	DDTA113TE, 6-1	DDTA143TUA, 6-1	DDTC114WE, 6-1
BZX84C22T, 8-1	BZX84C5V6, 8-14	DDTA113TCA, 6-1	DDTA143XE, 6-1	DDTC114WCA, 6-1
BZX84C22W, 8-10	BZX84C5V6S, 8-3	DDTA113TUA, 6-1	DDTA143XCA, 6-1	DDTC114WUA, 6-1
BZX84C24, 8-14	BZX84C5V6T, 8-1	DDTA113ZE, 6-1	DDTA143XUA, 6-1	DDTC114YE, 6-1
BZX84C24S, 8-3	BZX84C5V6W, 8-10	DDTA113ZCA, 6-1	DDTA143ZE, 6-1	DDTC114YCA, 6-1
BZX84C24T, 8-1	BZX84C6V2, 8-14	DDTA113ZUA, 6-1	DDTA143ZCA, 6-1	DDTC114YUA, 6-1
BZX84C24W, 8-10	BZX84C6V2S, 8-3	DDTA114EE, 6-1	DDTA143ZUA, 6-1	DDTC115EE, 6-1
BZX84C27, 8-14	BZX84C6V2T, 8-1	DDTA114ECA, 6-1	DDTA144EE, 6-1	DDTC115ECA, 6-1
BZX84C27S, 8-3	BZX84C6V2W, 8-10	DDTA114EUA, 6-1	DDTA114ECA, 6-1	DDTC115EUA, 6-1
BZX84C27T, 8-1	BZX84C6V8, 8-14	DDTA114GE, 6-1	DDTA114EUA, 6-1	DDTC115GE, 6-1
BZX84C27W, 8-10	BZX84C6V8S, 8-3	DDTA114GCA, 6-1	DDTA144GE, 6-1	DDTC115GCA, 6-1
BZX84C2V4, 8-14	BZX84C6V8T, 8-1	DDTA114GUA, 6-1	DDTA144GCA, 6-1	DDTC115GUA, 6-1
BZX84C2V4S, 8-3	BZX84C6V8W, 8-10	DDTA114TE, 6-1	DDTA144GUA, 6-1	DDTC115TE, 6-1
BZX84C2V4T, 8-1	BZX84C7V5, 8-14	DDTA114TCA, 6-1	DDTA144TE, 6-1	DDTC115TCA, 6-1
BZX84C2V4W, 8-10	BZX84C7V5S, 8-3	DDTA114TUA, 6-1	DDTA144TCA, 6-1	DDTC115TUA, 6-1
BZX84C2V7, 8-14	BZX84C7V5T, 8-1	DDTA114WE, 6-1	DDTA144TUA, 6-1	DDTC123EE, 6-1
BZX84C2V7S, 8-3	BZX84C7V5W, 8-10	DDTA114WCA, 6-1	DDTA144VE, 6-1	DDTC123ECA, 6-1
BZX84C2V7T, 8-1	BZX84C8V2, 8-14	DDTA114WUA, 6-1	DDTA114VCA, 6-1	DDTC123EUA, 6-1
BZX84C2V7W, 8-10	BZX84C8V2S, 8-3	DDTA114YE, 6-1	DDTA114VUA, 6-1	DDTC123JE, 6-1
BZX84C30, 8-14	BZX84C8V2T, 8-1	DDTA114YCA, 6-1	DDTA144WE, 6-1	DDTC123JCA, 6-1
BZX84C30S, 8-3	BZX84C8V2W, 8-10	DDTA114YUA, 6-1	DDTA114WCA, 6-1	DDTC123JUA, 6-1
BZX84C30T, 8-1	BZX84C9V1, 8-14	DDTA115EE, 6-1	DDTA114WUA, 6-1	DDTC123TE, 6-1
BZX84C30W, 8-10	BZX84C9V1S, 8-3	DDTA115ECA, 6-1	DDTB112CC, 6-2	DDTC123TCA, 6-1
BZX84C33, 8-14	BZX84C9V1T, 8-1	DDTA115EUA, 6-1	DDTB112CU, 6-2	DDTC123TUA, 6-1
BZX84C33S, 8-3	BZX84C9V1W, 8-10	DDTA115GE, 6-1	DDTB113EC, 6-2	DDTC123YE, 6-1
BZX84C33T, 8-1		DDTA115GCA, 6-1	DDTB113EU, 6-2	DDTC123YCA, 6-1
BZX84C33W, 8-10		DDTA115GUA, 6-1	DDTB113ZC, 6-2	DDTC123YUA, 6-1
BZX84C36, 8-14		DDTA115TE, 6-1	DDTB113ZU, 6-2	DDTC124EE, 6-1
BZX84C36S, 8-3		DDTA115TCA, 6-1	DDTB114EC, 6-2	DDTC124ECA, 6-1
BZX84C36T, 8-1		DDTA115TUA, 6-1	DDTB114EU, 6-2	DDTC124EUA, 6-1
BZX84C36W, 8-10		DDTA123EE, 6-1	DDTB114GC, 6-2	DDTC124GE, 6-1
BZX84C39, 8-14		DDTA123ECA, 6-1	DDTB114GU, 6-2	DDTC124GCA, 6-1
BZX84C39S, 8-3		DDTA123EUA, 6-1	DDTB114TC, 6-2	DDTC124GUA, 6-1
BZX84C39T, 8-1		DDTA123JE, 6-1	DDTB114TU, 6-2	DDTC124TE, 6-1
BZX84C39W, 8-10		DDTA123JCA, 6-1	DDTB122JC, 6-2	DDTC124TCA, 6-1
BZX84C3V0, 8-14		DDTA123JUA, 6-1	DDTB122JU, 6-2	DDTC124TUA, 6-1
BZX84C3V0S, 8-3	D1G, 13-2	DDTA123TE, 6-1	DDTB123EC, 6-2	DDTC124XE, 6-1
BZX84C3V0T, 8-1	D2G, 13-2	DDTA123TCA, 6-1	DDTB123EU, 6-2	DDTC124XCA, 6-1
BZX84C3V0W, 8-10	D3G, 13-2	DDTA123TUA, 6-1	DDTB123TC, 6-2	DDTC124XUA, 6-1
BZX84C3V3, 8-14	D4G, 13-2	DDTA123YE, 6-1	DDTB123TU, 6-2	DDTC125TE, 6-1
BZX84C3V3S, 8-3	D5G, 13-2	DDTA123YCA, 6-1	DDTB123YC, 6-2	DDTC125TCA, 6-1
BZX84C3V3T, 8-1	D6G, 13-2	DDTA123YUA, 6-1	DDTB123YU, 6-2	DDTC125TUA, 6-1
BZX84C3V3W, 8-10	D7G, 13-2	DDTA124EE, 6-1	DDTB133HC, 6-2	DDTC143EE, 6-1
BZX84C3V6, 8-14	DCX114E, 6-3	DDTA124ECA, 6-1	DDTB133HU, 6-2	DDTC143ECA, 6-1
BZX84C3V6S, 8-3	DCX114EUA, 6-1	DDTA124EUA, 6-1	DDTB143EC, 6-2	DDTC143EUA, 6-1
BZX84C3V6T, 8-1	DCX114T, 6-3	DDTA124GE, 6-1	DDTB143EU, 6-2	DDTC143FE, 6-1
BZX84C3V6W, 8-10	DCX114Y, 6-3	DDTA124GCA, 6-1	DDTB143TC, 6-2	DDTC143FCA, 6-1
BZX84C3V9, 8-14	DCX123J, 6-3	DDTA124GUA, 6-1	DDTB143TU, 6-2	DDTC143FUA, 6-1
BZX84C3V9S, 8-3	DCX124E, 6-3	DDTA124TE, 6-1	DDTB143TE, 6-2	DDTC143TE, 6-1
BZX84C3V9T, 8-1	DCX143T, 6-3	DDTA124TCA, 6-1	DDTC143TCA, 6-1	DDTC143TUA, 6-1
BZX84C3V9W, 8-10	DCX144E, 6-3	DDTA124TUA, 6-1	DDTC143TUA, 6-1	DDTC143TUA, 6-1
BZX84C43, 8-14	DDA114E, 6-3	DDTA124XE, 6-1	DDTC113TCA, 6-1	DDTC143XE, 6-1
BZX84C47, 8-14	DDA114T, 6-3	DDTA124XCA, 6-1	DDTC113TUA, 6-1	DDTC143XCA, 6-1
BZX84C4V3, 8-14	DDA114Y, 6-3	DDTA124XUA, 6-1	DDTC113ZE, 6-1	DDTC143XUA, 6-1
BZX84C4V3S, 8-3	DDA123J, 6-3	DDTA125TE, 6-1	DDTC113ZCA, 6-1	DDTC143ZE, 6-1
BZX84C4V3T, 8-1	DDA124E, 6-3	DDTA125TCA, 6-1	DDTA113ZUA, 6-1	DDTC143ZCA, 6-1
BZX84C4V3W, 8-10	DDA13T, 6-3	DDTA125TUA, 6-1	DDTC114EE, 6-1	DDTC143ZUA, 6-1

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DDTC144EE, 6-1	DF1506M, 14-2	ES1B, 11-1	GBJ808, 14-4	GBU8005, 14-4
DDTC114ECA, 6-1	DF1506S, 14-1	ES1C, 11-1	GBJ810, 14-4	GBU801, 14-4
DDTC114EUA, 6-1	DF1508M, 14-2	ES1D, 11-1	GBPC15005, 14-5	GBU802, 14-4
DDTC144GE, 6-1	DF1508S, 14-1	ES1G, 11-1	GBPC15005W, 14-6	GBU804, 14-4
DDTC144GCA, 6-1	DF1510M, 14-2	ES2A, 11-2	GBPC1501, 14-5	GBU806, 14-4
DDTC144GUA, 6-1	DF1510S, 14-1	ES2AA, 11-2	GBPC1501W, 14-6	GBU808, 14-4
DDTC144TE, 6-1	DIMD10A, 7-3	ES2B, 11-2	GBPC1502, 14-5	GBU810, 14-4
DDTC144TCA, 6-1	DIMD16A, 7-3	ES2BA, 11-2	GBPC1502W, 14-6	
DDTC144TUA, 6-1	DL4001, 13-1	ES2C, 11-2	GBPC1504, 14-5	
DDTC144VE, 6-1	DL4002, 13-1	ES2CA, 11-2	GBPC1504W, 14-6	
DDTC114VCA, 6-1	DL4003, 13-1	ES2D, 11-2	GBPC1506, 14-5	
DDTC114VUA, 6-1	DL4004, 13-1	ES2DA, 11-2	GBPC1506W, 14-6	
DDTC144WE, 6-1	DL4005, 13-1	ES3A, 11-3	GBPC1508, 14-5	HD01, 14-1
DDTC144WCA, 6-1	DL4006, 13-1	ES3AB, 11-3	GBPC1508W, 14-6	HD02, 14-1
DDTC114WUA, 6-1	DL4007, 13-1	ES3B, 11-3	GBPC1510, 14-5	HD04, 14-1
DDTD112CC, 6-2	DL4933, 12-1	ES3BB, 11-3	GBPC1510W, 14-6	HD06, 14-1
DDTD112CU, 6-2	DL4934, 12-1	ES3C, 11-3	GBPC25005, 14-6	
DDTD113EC, 6-2	DL4935, 12-1	ES3CB, 11-3	GBPC25005W, 14-6	
DDTD113EU, 6-2	DL4936, 12-1	ES3D, 11-3	GBPC2501, 14-6	
DDTD113ZC, 6-2	DL4937, 12-1	ES3DB, 11-3	GBPC2501W, 14-6	
DDTD113ZU, 6-2	DLP05LC, 7-3, 9-1		GBPC2502, 14-6	
DDTD114EC, 6-2	DLPT05, 7-3, 9-2		GBPC2502W, 14-6	IMT4, 4-5
DDTD114EU, 6-2	DMMT3904W, 4-6, 7-2		GBPC2504, 14-6	IMX8, 4-5
DDTD114GC, 6-2	DMMT3906W, 4-6, 7-2		GBPC2504W, 14-6	
DDTD114GU, 6-2	DMMT847B, 4-6, 7-2		GBPC2506, 14-6	
DDTD114TC, 6-2	DMMT857B, 4-6, 7-2	GBJ1005, 14-5	GBPC2506W, 14-6	
DDTD114TU, 6-2	DMN100, 5-1	GBJ1001, 14-5	GBPC2508, 14-6	
DDTD122JC, 6-2	DZ23C10, 8-13	GBJ1002, 14-5	GBPC2508W, 14-6	KBJ4005G, 14-3
DDTD122JU, 6-2	DZ23C11, 8-13	GBJ1004, 14-5	GBPC2510, 14-6	KBJ401G, 14-3
DDTD123EC, 6-2	DZ23C12, 8-13	GBJ1006, 14-5	GBPC2510W, 14-6	KBJ402G, 14-3
DDTD123EU, 6-2	DZ23C13, 8-13	GBJ1008, 14-5	GBPC35005, 14-7	KBJ404G, 14-3
DDTD123TC, 6-2	DZ23C15, 8-13	GBJ1010, 14-5	GBPC35005W, 14-7	KBJ406G, 14-3
DDTD123TU, 6-2	DZ23C16, 8-13	GBJ15005, 14-5	GBPC3501, 14-7	KBJ408G, 14-3
DDTD123YC, 6-2	DZ23C18, 8-13	GBJ1501, 14-5	GBPC3501W, 14-7	KBJ410G, 14-3
DDTD123YU, 6-2	DZ23C20, 8-13	GBJ1502, 14-5	GBPC3502, 14-7	KBJ6005G, 14-3
DDTD133HC, 6-2	DZ23C22, 8-13	GBJ1504, 14-5	GBPC3502W, 14-7	KBJ601G, 14-3
DDTD133HU, 6-2	DZ23C24, 8-13	GBJ1506, 14-5	GBPC3504, 14-7	KBJ602G, 14-3
DDTD143EC, 6-2	DZ23C27, 8-13	GBJ1508, 14-5	GBPC3504W, 14-7	KBJ604G, 14-3
DDTD143EU, 6-2	DZ23C2V7, 8-13	GBJ1510, 14-5	GBPC3506, 14-7	KBJ606G, 14-3
DDTD143TC, 6-2	DZ23C30, 8-13	GBJ20005, 14-6	GBPC3506W, 14-7	KBJ608G, 14-3
DDTD143TU, 6-2	DZ23C33, 8-13	GBJ2001, 14-6	GBPC3508, 14-7	KBJ610G, 14-3
	DZ23C36, 8-13	GBJ2002, 14-6	GBPC3508W, 14-7	KBP005G, 14-2
	DZ23C39, 8-13	GBJ2004, 14-6	GBPC3510, 14-7	KBP01G, 14-2
DF005M, 14-1	DZ23C3V0, 8-13	GBJ2006, 14-6	GBPC3510W, 14-7	KBP02G, 14-2
DF005S, 14-1	DZ23C3V3, 8-13	GBJ2008, 14-6	GBU10005, 14-5	KBP04G, 14-2
DF01M, 14-1	DZ23C3V6, 8-13	GBJ2010, 14-6	GBU1001, 14-5	KBP06G, 14-2
DF01S, 14-1	DZ23C3V9, 8-13	GBJ25005, 14-6	GBU1002, 14-5	KBP08G, 14-2
DF02M, 14-1	DZ23C43, 8-13	GBJ2501, 14-6	GBU1004, 14-5	KBP10G, 14-2
DF02S, 14-1	DZ23C47, 8-13	GBJ2502, 14-6	GBU1006, 14-5	KBP2005G, 14-2
DF04M, 14-1	DZ23C4V3, 8-13	GBJ2504, 14-6	GBU1008, 14-5	KBP201G, 14-2
DF04S, 14-1	DZ23C4V7, 8-13	GBJ2506, 14-6	GBU1010, 14-5	KBP202G, 14-2
DF06M, 14-1	DZ23C51, 8-13	GBJ2508, 14-6	GBU4005, 14-3	KBP204G, 14-2
DF06S, 14-1	DZ23C5V1, 8-13	GBJ2510, 14-6	GBU401, 14-3	KBP206G, 14-2
DF08M, 14-1	DZ23C5V6, 8-13	GBJ6005, 14-3	GBU402, 14-3	KBP208G, 14-2
DF08S, 14-1	DZ23C6V2, 8-13	GBJ601, 14-3	GBU404, 14-3	KBP210G, 14-2
DF10M, 14-1	DZ23C6V8, 8-13	GBJ602, 14-3	GBU406, 14-3	
DF10S, 14-1	DZ23C7V5, 8-13	GBJ604, 14-3	GBU408, 14-3	
DF15005M, 14-2	DZ23C8V2, 8-13	GBJ606, 14-3	GBU410, 14-3	
DF15005S, 14-1	DZ23C9V1, 8-13	GBJ608, 14-3	GBU6005, 14-4	
DF1501M, 14-2		GBJ610, 14-3	GBU601, 14-4	
DF1501S, 14-1		GBJ8005, 14-4	GBU602, 14-4	LL4148, 3-4
DF1502M, 14-2		GBJ801, 14-4	GBU604, 14-4	LL4150, 3-4
DF1502S, 14-1		GBJ802, 14-4	GBU606, 14-4	LL4151, 3-4
DF1504M, 14-2		GBJ804, 14-4	GBU608, 14-4	LL4154, 3-4
DF1504S, 14-1	ES1A, 11-1	GBJ806, 14-4	GBU610, 14-4	

---

---

LL42, 2-4	MBR4030PT, 10-6	MMBT4401, 4-4	MMBZ5232BT, 8-2	MMBZ5252BW, 8-11
LL43, 2-4	MBR4035PT, 10-6	MMBT4401T, 4-1	MMBZ5232BW, 8-11	MMBZ5254B, 8-15
LL4448, 3-4	MBR4040PT, 10-6	MMBT4403, 4-4	MMBZ5233B, 8-15	MMBZ5254BS, 8-4
LL46, 2-4	MBR4045PT, 10-6	MMBT4403T, 4-1	MMBZ5233BS, 8-4	MMBZ5254BT, 8-2
LL5711, 2-4	MBR4050PT, 10-6	MMBT5401, 4-4	MMBZ5234B, 8-15	MMBZ5254BW, 8-11
LL6263, 2-4	MBR4060PT, 10-6	MMBT5551, 4-4	MMBZ5234BS, 8-4	MMBZ5255B, 8-15
LLSD101A, 2-4	MBR6030PT, 10-6	MMBT6427, 4-5	MMBZ5234BT, 8-2	MMBZ5255BS, 8-4
LLSD101B, 2-4	MBR6035PT, 10-6	MMBTA05, 4-4	MMBZ5234BW, 8-11	MMBZ5255BT, 8-2
LLSD101C, 2-4	MBR6040PT, 10-6	MMBTA06, 4-4	MMBZ5235B, 8-15	MMBZ5255BW, 8-11
LLSD103A, 2-4	MBR6045PT, 10-6	MMBTA13, 4-5	MMBZ5235BS, 8-4	MMBZ5256B, 8-15
LLSD103B, 2-4	MBR730, 10-2	MMBTA14, 4-5	MMBZ5235BT, 8-2	MMBZ5256BS, 8-4
LLSD103C, 2-4	MBR735, 10-2	MMBTA42, 4-4	MMBZ5235BW, 8-11	MMBZ5256BT, 8-2
	MBR740, 10-2	MMBTA55, 4-5	MMBZ5236B, 8-15	MMBZ5256BW, 8-11
	MBR745, 10-2	MMBTA56, 4-5	MMBZ5236BS, 8-4	MMBZ5257B, 8-15
<b>M</b>	MBR750, 10-2	MMBTA63, 4-5	MMBZ5236BT, 8-2	MMBZ5257BS, 8-4
	MBR760, 10-2	MMBTA64, 4-5	MMBZ5236BW, 8-11	MMBZ5257BT, 8-2
	MBRB1530CT, 2-10	MMBTA92, 4-5	MMBZ5237B, 8-15	MMBZ5257BW, 8-11
MBR10100CT, 10-3	MBRB1535CT, 2-10	MMBTH10, 4-4	MMBZ5237BS, 8-4	MMBZ5258B, 8-15
MBR1030, 10-3	MBRB1540CT, 2-10	MMBTH24, 4-4	MMBZ5237BT, 8-2	MMBZ5258BS, 8-4
MBR1030CT, 10-3	MBRB1545CT, 2-10	MMBZ10VAL, 9-1	MMBZ5237BW, 8-11	MMBZ5258BT, 8-2
MBR1035, 10-3	MBRB20100CT, 2-11	MMBZ15VAL, 9-1	MMBZ5238B, 8-15	MMBZ5258BW, 8-11
MBR1035CT, 10-3	MBRB2070CT, 2-11	MMBZ15VDL, 9-1	MMBZ5238BS, 8-4	MMBZ5259B, 8-15
MBR1040, 10-3	MBRB2080CT, 2-11	MMBZ18VAL, 9-1	MMBZ5239B, 8-15	MMBZ5259BS, 8-4
MBR1040CT, 10-3	MBRB2090CT, 2-11	MMBZ20VAL, 9-1	MMBZ5239BS, 8-4	MMBZ5259BT, 8-2
MBR1045, 10-3	MBRD1035CTL, 2-10	MMBZ27VAL, 9-1	MMBZ5239BT, 8-2	MMBZ5259BW, 8-11
MBR1045CT, 10-3	MBRD1040, 2-10	MMBZ27VCL, 9-1	MMBZ5239BW, 8-11	MMBZ5V6AL, 9-1
MBR1050, 10-3	MBRD1040CT, 2-10	MMBZ33VAL, 9-1	MMBZ5240B, 8-15	MMBZ6V8AL, 9-1
MBR1050CT, 10-3	MBRD835L, 2-10	MMBZ5221B, 8-15	MMBZ5240BS, 8-4	MMBZ9V1AL, 9-1
MBR1060, 10-3	MBRM3100, 2-8	MMBZ5221BS, 8-4	MMBZ5240BT, 8-2	MMDT2222A, 4-2
MBR1060CT, 10-3	MBRM360, 2-8	MMBZ5221BT, 8-2	MMBZ5240BW, 8-11	MMDT2227, 4-3
MBR1070CT, 10-3	MBRM5100, 2-9	MMBZ5221BW, 8-11	MMBZ5241B, 8-15	MMDT2907A, 4-3
MBR1080CT, 10-3	MBRM560, 2-9	MMBZ5223B, 8-15	MMBZ5241BS, 8-4	MMDT3904, 4-2
MBR1090CT, 10-3	MBRM760, 2-9	MMBZ5223BS, 8-4	MMBZ5241BT, 8-2	MMDT3906, 4-3
MBR1530CT, 10-3	MMBD2004S, 3-3	MMBZ5223BT, 8-2	MMBZ5241BW, 8-11	MMDT3946, 4-3
MBR1535CT, 10-3	MMBD3004S, 3-3	MMBZ5223BW, 8-11	MMBZ5242B, 8-15	MMDT4124, 4-2
MBR1540CT, 10-3	MMBD4148, 3-3	MMBZ5225B, 8-15	MMBZ5242BS, 8-4	MMDT4126, 4-3
MBR1545CT, 10-3	MMBD4148TW, 3-2	MMBZ5225BS, 8-4	MMBZ5242BT, 8-2	MMDT4146, 4-3
MBR1550CT, 10-3	MMBD4148W, 3-1	MMBZ5225BT, 8-2	MMBZ5242BW, 8-11	MMDT4401, 4-2
MBR1560CT, 10-3	MMBD4448, 3-3	MMBZ5225BW, 8-11	MMBZ5243B, 8-15	MMDT4403, 4-3
MBR1630, 10-4	MMBD4448H, 3-3	MMBZ5226B, 8-15	MMBZ5243BS, 8-4	MMDT4413, 4-3
MBR1635, 10-4	MMBD4448HADW, 3-2	MMBZ5226BS, 8-4	MMBZ5243BT, 8-2	MMDT5401, 4-3
MBR1640, 10-4	MMBD4448HAQW, 3-2	MMBZ5226BT, 8-2	MMBZ5243BW, 8-11	MMDT5451, 4-3
MBR1645, 10-4	MMBD4448HCDW, 3-2	MMBZ5226BW, 8-11	MMBZ5245B, 8-15	MMDT5551, 4-3
MBR1650, 10-4	MMBD4448HCQW, 3-2	MMBZ5227B, 8-15	MMBZ5245BS, 8-4	MMST2222A, 4-1
MBR1660, 10-4	MMBD4448HSDW, 3-2	MMBZ5227BS, 8-4	MMBZ5245BT, 8-2	MMST2907A, 4-2
MBR20100CT, 10-4	MMBD4448HT, 3-1	MMBZ5227BT, 8-2	MMBZ5245BW, 8-11	MMST3904, 4-1
MBR2030CT, 10-4	MMBD4448HTA, 3-1	MMBZ5227BW, 8-11	MMBZ5246B, 8-15	MMST3906, 4-2
MBR2035CT, 10-4	MMBD4448HTC, 3-1	MMBZ5228B, 8-15	MMBZ5246BS, 8-4	MMST4124, 4-1
MBR2040CT, 10-4	MMBD4448HTM, 3-3	MMBZ5228BS, 8-4	MMBZ5246BT, 8-2	MMST4126, 4-2
MBR2045CT, 10-4	MMBD4448HTS, 3-1	MMBZ5228BT, 8-2	MMBZ5246BW, 8-11	MMST4401, 4-1
MBR2050CT, 10-4	MMBD4448HTW, 3-2	MMBZ5228BW, 8-11	MMBZ5248B, 8-15	MMST4403, 4-2
MBR2060CT, 10-4	MMBD4448W, 3-1	MMBZ5229B, 8-15	MMBZ5248BS, 8-4	MMST5401, 4-2
MBR2070CT, 10-4	MMBD7000, 3-3	MMBZ5229BS, 8-4	MMBZ5248BT, 8-2	MMST5551, 4-1
MBR2080CT, 10-4	MMBD914, 3-3	MMBZ5229BT, 8-2	MMBZ5248BW, 8-11	MMST6427, 4-2
MBR2090CT, 10-4	MMBF170, 5-1	MMBZ5229BW, 8-11	MMBZ5250B, 8-15	MMSTA05, 4-2
MBR2535CT, 10-5	MMBT123S, 4-4	MMBZ5230B, 8-15	MMBZ5250BS, 8-4	MMSTA06, 4-2
MBR2545CT, 10-5	MMBT222A, 4-4	MMBZ5230BS, 8-4	MMBZ5250BT, 8-2	MMSTA13, 4-2
MBR2550CT, 10-5	MMBT222AT, 4-1	MMBZ5230BT, 8-2	MMBZ5250BW, 8-11	MMSTA14, 4-2
MBR2560CT, 10-5	MMBT2907A, 4-4	MMBZ5230BW, 8-11	MMBZ5251B, 8-15	MMSTA42, 4-2
MBR3030PT, 10-6	MMBT2907AT, 4-1	MMBZ5231B, 8-15	MMBZ5251BS, 8-4	MMSTA55, 4-2
MBR3035PT, 10-6	MMBT3904, 4-4	MMBZ5231BS, 8-4	MMBZ5251BT, 8-2	MMSTA56, 4-2
MBR3040PT, 10-6	MMBT3906, 4-4	MMBZ5231BT, 8-2	MMBZ5251BW, 8-11	MMSTA63, 4-2
MBR3045PT, 10-6	MMBT3906T, 4-1	MMBZ5231BW, 8-11	MMBZ5252B, 8-15	MMSTA64, 4-2
MBR3050PT, 10-6	MMBT4124, 4-4	MMBZ5232B, 8-15	MMBZ5252BS, 8-4	MMSTA92, 4-2
MBR3060PT, 10-6	MMBT4126, 4-4	MMBZ5232BS, 8-4	MMBZ5252BT, 8-2	MMSZ5221B, 8-17

---

---

MMSZ5221BS, 8-7	MUR120, 11-2	PBPC1006, 14-5	PR1505GS, 12-4	RS2B, 12-3
MMSZ5223B, 8-17	MUR140, 11-2	PBPC1007, 14-5	PR1505S, 12-4	RS2BA, 12-3
MMSZ5223BS, 8-7	MUR160, 11-2	PBPC301, 14-3	PR1506G, 12-3	RS2D, 12-3
MMSZ5225B, 8-17	MURB1610CT, 11-4	PBPC302, 14-3	PR1506GS, 12-4	RS2DA, 12-3
MMSZ5225BS, 8-7	MURB1620CT, 11-4	PBPC303, 14-3	PR1507G, 12-3	RS2G, 12-3
MMSZ5226B, 8-17	MURM420, 11-4	PBPC304, 14-3	PR1507GS, 12-4	RS2GA, 12-3
MMSZ5226BS, 8-7	MURM460, 11-4	PBPC305, 14-3	PR2001, 12-4	RS2J, 12-3
MMSZ5227B, 8-17	MURM820, 11-4	PBPC306, 14-3	PR2001G, 12-4	RS2JA, 12-3
MMSZ5227BS, 8-7	MURM840, 11-4	PBPC307, 14-3	PR2002, 12-4	RS2K, 12-3
MMSZ5228B, 8-17	MURS120, 11-1	PBPC601, 14-4	PR2002G, 12-4	RS2KA, 12-3
MMSZ5228BS, 8-7	MURS140, 11-1	PBPC602, 14-4	PR2003, 12-4	RS2M, 12-3
MMSZ5229B, 8-17	MURS160, 11-1	PBPC603, 14-4	PR2003G, 12-4	RS2MA, 12-3
MMSZ5229BS, 8-7	MURS320, 11-3	PBPC604, 14-4	PR2004, 12-4	RS3A, 12-5
MMSZ5230B, 8-17		PBPC605, 14-4	PR2004G, 12-4	RS3AB, 12-4
MMSZ5230BS, 8-7		PBPC606, 14-4	PR2005, 12-4	RS3B, 12-5
MMSZ5231B, 8-17		PBPC607, 14-4	PR2005G, 12-4	RS3BB, 12-4
MMSZ5231BS, 8-7		PBPC801, 14-4	PR2006G, 12-4	RS3D, 12-5
MMSZ5232B, 8-17		PBPC802, 14-4	PR2007G, 12-4	RS3DB, 12-4
MMSZ5232BS, 8-7		PBPC803, 14-4	PR3001, 12-5	RS3G, 12-5
MMSZ5233B, 8-17	P6KE10(C)A, 9-7	PBPC804, 14-4	PR3001G, 12-5	RS3GB, 12-4
MMSZ5233BS, 8-7	P6KE11(C)A, 9-7	PBPC805, 14-4	PR3002, 12-5	RS3J, 12-5
MMSZ5234B, 8-17	P6KE110(C)A, 9-7	PBPC806, 14-4	PR3002G, 12-5	RS3JB, 12-4
MMSZ5234BS, 8-7	P6KE12(C)A, 9-7	PBPC807, 14-4	PR3003, 12-5	RS3K, 12-5
MMSZ5235B, 8-17	P6KE120(C)A, 9-8	PR1001, 12-2	PR3003G, 12-5	RS3KB, 12-4
MMSZ5235BS, 8-7	P6KE13(C)A, 9-7	PR1001G, 12-2	PR3004, 12-5	RS3M, 12-5
MMSZ5236B, 8-17	P6KE130(C)A, 9-8	PR1001GL, 12-2	PR3004G, 12-5	RS3MB, 12-4
MMSZ5236BS, 8-7	P6KE15(C)A, 9-7	PR1001L, 12-2	PR3005, 12-5	
MMSZ5237B, 8-17	P6KE150(C)A, 9-8	PR1002, 12-2	PR3005G, 12-5	
MMSZ5237BS, 8-7	P6KE16(C)A, 9-7	PR1002G, 12-2	PR3006G, 12-5	
MMSZ5238B, 8-17	P6KE160(C)A, 9-8	PR1002GL, 12-2	PR3007G, 12-5	
MMSZ5238BS, 8-7	P6KE170(C)A, 9-8	PR1002L, 12-2	PR6001, 12-5	
MMSZ5239B, 8-17	P6KE18(C)A, 9-7	PR1003, 12-2	PR6002, 12-5	S1A, 13-1
MMSZ5239BS, 8-7	P6KE180(C)A, 9-8	PR1003G, 12-2	PR6003, 12-5	S1AB, 13-1
MMSZ5240B, 8-17	P6KE20(C)A, 9-7	PR1003GL, 12-2	PR6004, 12-5	S1B, 13-1
MMSZ5240BS, 8-7	P6KE200(C)A, 9-8	PR1003L, 12-2	PR6005, 12-5	S1BB, 13-1
MMSZ5241B, 8-17	P6KE22(C)A, 9-7	PR1004, 12-2		S1D, 13-1
MMSZ5241BS, 8-7	P6KE220(C)A, 9-8	PR1004G, 12-2		S1DB, 13-1
MMSZ5242B, 8-17	P6KE24(C)A, 9-7	PR1004GL, 12-2		S1G, 13-1
MMSZ5242BS, 8-7	P6KE250(C)A, 9-8	PR1004L, 12-2		S1GB, 13-1
MMSZ5243B, 8-17	P6KE27(C)A, 9-7	PR1005, 12-2		S1I, 13-1
MMSZ5243BS, 8-7	P6KE30(C)A, 9-7	PR1005G, 12-2	QSBT40, 2-3, 7-2	S1JB, 13-1
MMSZ5245B, 8-17	P6KE300(C)A, 9-8	PR1005GL, 12-2	QZX363C15, 8-5	S1K, 13-1
MMSZ5245BS, 8-7	P6KE33(C)A, 9-7	PR1005L, 12-2	QZX363C20, 8-5	S1KB, 13-1
MMSZ5246B, 8-17	P6KE350(C)A, 9-8	PR1006G, 12-2	QZX363C5V6, 8-5	S1M, 13-1
MMSZ5246BS, 8-7	P6KE36(C)A, 9-7	PR1006GL, 12-2	QZX363C6V8, 8-5	S1MB, 13-1
MMSZ5248B, 8-17	P6KE39(C)A, 9-7	PR1007G, 12-2		S2A, 13-3
MMSZ5248BS, 8-7	P6KE400(C)A, 9-8	PR1007GL, 12-2		S2AA, 13-3
MMSZ5250B, 8-17	P6KE43(C)A, 9-7	PR1501, 12-3		S2B, 13-3
MMSZ5250BS, 8-7	P6KE47(C)A, 9-7	PR1501G, 12-3		S2BA, 13-3
MMSZ5251B, 8-17	P6KE51(C)A, 9-7	PR1501GS, 12-4	RS1A, 12-1	S2D, 13-3
MMSZ5251BS, 8-7	P6KE56(C)A, 9-7	PR1501S, 12-4	RS1AB, 12-1	S2DA, 13-3
MMSZ5252B, 8-17	P6KE6.8(C)A, 9-7	PR1502, 12-3	RS1B, 12-1	S2G, 13-3
MMSZ5252BS, 8-7	P6KE62(C)A, 9-7	PR1502G, 12-3	RS1BB, 12-1	S2GA, 13-3
MMSZ5254B, 8-17	P6KE68(C)A, 9-7	PR1502GS, 12-4	RS1D, 12-1	S2J, 13-3
MMSZ5254BS, 8-7	P6KE7.5(C)A, 9-7	PR1502S, 12-4	RS1DB, 12-1	S2JA, 13-3
MMSZ5255B, 8-17	P6KE75(C)A, 9-7	PR1503, 12-3	RS1G, 12-1	S2K, 13-3
MMSZ5255BS, 8-7	P6KE8.2(C)A, 9-7	PR1503G, 12-3	RS1GB, 12-1	S2KA, 13-3
MMSZ5256B, 8-17	P6KE82(C)A, 9-7	PR1503GS, 12-4	RS1J, 12-1	S2M, 13-3
MMSZ5256BS, 8-7	P6KE9.1(C)A, 9-7	PR1503S, 12-4	RS1JB, 12-1	S2MA, 13-3
MMSZ5257B, 8-17	P6KE91(C)A, 9-7	PR1504, 12-3	RS1K, 12-1	S3A, 13-4
MMSZ5257BS, 8-7	PBPC1001, 14-5	PR1504G, 12-3	RS1KB, 12-1	S3AB, 13-4
MMSZ5258B, 8-17	PBPC1002, 14-5	PR1504GS, 12-4	RS1M, 12-1	S3B, 13-4
MMSZ5258BS, 8-7	PBPC1003, 14-5	PR1504S, 12-4	RS1MB, 12-1	S3BB, 13-4
MMSZ5259B, 8-17	PBPC1004, 14-5	PR1505, 12-3	RS2A, 12-3	S3D, 13-4
MMSZ5259BS, 8-7	PBPC1005, 14-5	PR1505G, 12-3	RS2AA, 12-3	S3DB, 13-4

---

---

S3G, 13-4	SB150, 10-1	SBL1640PT, 10-4	SD101BWS, 2-2	SMAJ120, 9-3
S3GB, 13-4	SB160, 10-1	SBL1645, 10-4	SD101C, 2-5	SMAJ13(C)A, 9-3
S3J, 13-4	SB170, 10-1	SBL1645CT, 10-4	SD101CW, 2-4	SMAJ130, 9-3
S3JB, 13-4	SB180, 10-1	SBL1645PT, 10-4	SD101CWS, 2-2	SMAJ14(C)A, 9-3
S3K, 13-4	SB190, 10-1	SBL1650, 10-4	SD103A, 2-5	SMAJ15(C)A, 9-3
S3KB, 13-4	SB3100, 10-1	SBL1650CT, 10-4	SD103ASDM, 2-4, 14-1	SMAJ150, 9-3
S3M, 13-4	SB320, 10-1	SBL1650PT, 10-4	SD103AW, 2-4	SMAJ16(C)A, 9-3
S3MB, 13-4	SB330, 10-1	SBL1660, 10-4	SD103AWS, 2-2	SMAJ160, 9-3
S5AC, 13-5	SB330L, 10-1	SBL1660CT, 10-4	SD103B, 2-5	SMAJ17(C), 9-3
S5BC, 13-5	SB340, 10-1	SBL1660PT, 10-4	SD103BW, 2-4	SMAJ170, 9-3
S5DC, 13-5	SB350, 10-1	SBL2030CT, 10-4	SD103BWS, 2-2	SMAJ5.0(C)A, 9-3
S5GC, 13-5	SB360, 10-1	SBL2030PT, 10-5	SD103C, 2-5	SMAJ51(C), 9-3
S5JC, 13-5	SB370, 10-1	SBL2035CT, 10-4	SD103CW, 2-4	SMAJ54(C)A, 9-3
S5KC, 13-5	SB380, 10-1	SBL2035PT, 10-5	SD103CWS, 2-2	SMAJ58, 9-3
S5MC, 13-5	SB390, 10-1	SBL2040CT, 10-4	SD107WS, 2-2	SMAJ6.0(C)A, 9-3
SA10(C)A, 9-4	SB5100, 10-2	SBL2040PT, 10-5	SD830, 10-2	SMAJ6.5(C)A, 9-3
SA100(C)A, 9-5	SB520, 10-2	SBL2045CT, 10-4	SD840, 10-2	SMAJ60, 9-3
SA11, 9-4	SB530, 10-2	SBL2045PT, 10-5	SD845, 10-2	SMAJ64, 9-3
SA110, 9-5	SB540, 10-2	SBL2050CT, 10-4	SD860, 10-2	SMAJ7.0(C)A, 9-3
SA12(C)A, 9-4	SB550, 10-2	SBL2050PT, 10-5	SD930, 10-3	SMAJ7.5(C)A, 9-3
SA120(C)A, 9-5	SB560, 10-2	SBL2060CT, 10-4	SD940, 10-3	SMAJ70, 9-3
SA13, 9-4	SB570, 10-2	SBL2060PT, 10-5	SD945, 10-3	SMAJ75, 9-3
SA130(C)A, 9-5	SB580, 10-2	SBL3030CT, 10-5	SDM10K45, 2-2	SMAJ78, 9-3
SA14, 9-4	SB590, 10-2	SBL3030PT, 10-6	SDM10P45, 2-1	SMAJ8.0(C)A, 9-3
SA15(C)A, 9-4	SBG1025L, 2-10	SBL3035PT, 10-6	SDM20E40C, 2-4	SMAJ8.5(C)A, 9-3
SA150(C)A, 9-5	SBG1030CT, 2-10	SBL3040CT, 10-5	SDM40E20LS, 2-6	SMAJ85, 9-3
SA16, 9-4	SBG1030L, 2-10	SBL3040PT, 10-6	SDMG0340L, 2-2	SMAJ9.0(C)A, 9-3
SA160(C)A, 9-5	SBG1035CT, 2-10	SBL3045CT, 10-5	SDMG0340LA, 2-2	SMAJ90, 9-3
SA17, 9-4	SBG1040CT, 2-10	SBL3045PT, 10-6	SDMG0340LC, 2-2	SMAT70A, 9-3
SA170(C)A, 9-5	SBG1045CT, 2-10	SBL3050CT, 10-5	SDMG0340LS, 2-2	SMAZ10, 8-22
SA18(C)A, 9-4	SBG1630CT, 2-11	SBL3050PT, 10-6	SDMK0340L, 2-2	SMAZ12, 8-22
SA20(C)A, 9-4	SBG1635CT, 2-11	SBL3060CT, 10-5	SDMP0340LAT, 2-1	SMAZ15, 8-22
SA22, 9-4	SBG1640CT, 2-11	SBL3060PT, 10-6	SDMP0340LCT, 2-1	SMAZ16, 8-22
SA24, 9-4	SBG1645CT, 2-11	SBL4030PT, 10-6	SDMP0340LST, 2-1	SMAZ18, 8-22
SA26, 9-4	SBG2030CT, 2-11	SBL4035PT, 10-6	SDMP0340LT, 2-1	SMAZ20, 8-22
SA28, 9-4	SBG2035CT, 2-11	SBL4040PT, 10-6	SF10AG, 11-1	SMAZ22, 8-22
SA30(C)A, 9-4	SBG2040CT, 2-11	SBL4045PT, 10-6	SF10BG, 11-1	SMAZ24, 8-22
SA33, 9-4	SBG2045CT, 2-11	SBL4050PT, 10-6	SF10CG, 11-1	SMAZ27, 8-22
SA36, 9-4	SBG3030CT, 2-11	SBL4060PT, 10-6	SF10DG, 11-1	SMAZ30, 8-22
SA40, 9-4	SBG3040CT, 2-11	SBL530, 10-2	SF10FG, 11-1	SMAZ33, 8-22
SA43, 9-4	SBG3045CT, 2-11	SBL535, 10-2	SF10GG, 11-1	SMAZ36, 8-22
SA45, 9-4	SBG3050CT, 2-11	SBL540, 10-2	SF10HG, 11-1	SMAZ39, 8-22
SA48, 9-4	SBG3060CT, 2-11	SBL545, 10-2	SF10JG, 11-1	SMAZ3V3, 8-22
SA5.0(C)A, 9-4	SBL1025L, 10-3	SBL550, 10-2	SF20AG, 11-3	SMAZ3V6, 8-22
SA51(C)A, 9-4	SBL1030, 10-3	SBL560, 10-2	SF20BG, 11-3	SMAZ3V9, 8-22
SA54, 9-4	SBL1030CT, 10-3	SBL6030PT, 10-6	SF20CG, 11-3	SMAZ4V3, 8-22
SA58, 9-4	SBL1030L, 10-3	SBL6040PT, 10-6	SF20DG, 11-3	SMAZ4V7, 8-22
SA6.0(C)A, 9-4	SBL1035, 10-3	SBL6050PT, 10-6	SF20FG, 11-3	SMAZ5V1, 8-22
SA6.5(C)A, 9-4	SBL1035CT, 10-3	SBL6060PT, 10-6	SF20GG, 11-3	SMAZ5V6, 8-22
SA60, 9-4	SBL1040, 10-3	SBL830, 10-2	SF20HG, 11-3	SMAZ6V2, 8-22
SA64, 9-4	SBL1040CT, 10-3	SBL835, 10-2	SF20JG, 11-3	SMAZ6V8, 8-22
SA7.0(C)A, 9-4	SBL1045, 10-3	SBL840, 10-2	SF30AG, 11-4	SMAZ7V5, 8-22
SA7.5(C)A, 9-4	SBL1045CT, 10-3	SBL845, 10-2	SF30BG, 11-4	SMAZ8V2, 8-22
SA70, 9-4	SBL1050, 10-3	SBL850, 10-2	SF30CG, 11-4	SMAZ9V1, 8-22
SA75, 9-4	SBL1050CT, 10-3	SBL860, 10-2	SF30DG, 11-4	SMBJ10(C)A, 9-5
SA78, 9-4	SBL1060, 10-3	SBM1040, 2-10	SF30FG, 11-4	SMBJ100(C)A, 9-6
SA8.0(C)A, 9-4	SBL1060CT, 10-3	SBM1040CT, 2-10	SF30GG, 11-4	SMBJ11(C)A, 9-5
SA8.5(C)A, 9-4	SBL1630, 10-4	SBM340, 2-8	SF30HG, 11-4	SMBJ110(C)A, 9-6
SA85, 9-4	SBL1630CT, 10-4	SBM540, 2-9	SF30JG, 11-4	SMBJ12(C)A, 9-5
SA9.0(C)A, 9-4	SBL1630PT, 10-4	SBM835L, 2-9	SM5J, 13-5	SMBJ120(C)A, 9-6
SA90, 9-4	SBL1635, 10-4	SD101A, 2-5	SMAJ10(C)A, 9-3	SMBJ13(C)A, 9-5
SB1100, 10-1	SBL1635CT, 10-4	SD101AW, 2-4	SMAJ100, 9-3	SMBJ130(C)A, 9-6
SB120, 10-1	SBL1635PT, 10-4	SD101AWS, 2-2	SMAJ11(C)A, 9-3	SMBJ14(C)A, 9-5
SB130, 10-1	SBL1640, 10-4	SD101B, 2-5	SMAJ110, 9-3	SMBJ15(C)A, 9-5
SB140, 10-1	SBL1640CT, 10-4	SD101BW, 2-4	SMAJ12(C)A, 9-3	SMBJ150(C)A, 9-6

---

---

SMBJ16(C)A, 9-5	SMCJ51(C)A, 9-9	<b>U</b>	UF2006, 11-3
SMBJ160(C)A, 9-6	SMCJ54(C)A, 9-9		UF2007, 11-3
SMBJ17(C)A, 9-5	SMCJ58(C)A, 9-9		UF3001, 11-4
SMBJ170(C)A, 9-6	SMCJ6.0(C)A, 9-8	UDZ10B, 8-8	UF3002, 11-4
SMBJ18(C)A, 9-6	SMCJ6.5(C)A, 9-8	UDZ11B, 8-8	UF3003, 11-4
SMBJ20(C)A, 9-6	SMCJ60(C)A, 9-9	UDZ12B, 8-8	UF3004, 11-4
SMBJ22(C)A, 9-6	SMCJ64(C)A, 9-9	UDZ13B, 8-8	UF3005, 11-4
SMBJ24(C)A, 9-6	SMCJ7.0(C)A, 9-8	UDZ15B, 8-8	UF3006, 11-4
SMBJ26(C)A, 9-6	SMCJ7.5(C)A, 9-8	UDZ16B, 8-8	UF3007, 11-4
SMBJ28(C)A, 9-6	SMCJ70(C)A, 9-9	UDZ18B, 8-8	UG1001, 11-2
SMBJ30(C)A, 9-6	SMCJ75(C)A, 9-9	UDZ20B, 8-8	UG1002, 11-2
SMBJ33(C)A, 9-6	SMCJ78(C)A, 9-9	UDZ22B, 8-8	UG1003, 11-2
SMBJ36(C)A, 9-6	SMCJ8.0(C)A, 9-8	UDZ24B, 8-8	UG1004, 11-2
SMBJ40(C)A, 9-6	SMCJ8.5(C)A, 9-8	UDZ27B, 8-8	UG1005, 11-2
SMBJ43(C)A, 9-6	SMCJ85(C)A, 9-9	UDZ2V0B, 8-8	UG2001, 11-3
SMBJ45(C)A, 9-6	SMCJ9.0(C)A, 9-8	UDZ2V2B, 8-8	UG2002, 11-3
SMBJ48(C)A, 9-6	SMCJ90(C)A, 9-9	UDZ2V4B, 8-8	UG2003, 11-3
SMBJ5.0(C)A, 9-5		UDZ2V7B, 8-8	UG2004, 11-3
SMBJ51(C)A, 9-6		UDZ30B, 8-8	UG2005, 11-3
SMBJ54(C)A, 9-6		UDZ33B, 8-8	UG3001, 11-4
SMBJ58(C)A, 9-6		UDZ36B, 8-8	UG3002, 11-4
SMBJ6.0(C)A, 9-5		UDZ39B, 8-8	UG3003, 11-4
SMBJ6.5(C)A, 9-5	TB1100H, 9-13	UDZ3V0B, 8-8	UG3004, 11-4
SMBJ60(C)A, 9-6	TB1100L, 9-11	UDZ3V3B, 8-8	UG3005, 11-4
SMBJ64(C)A, 9-6	TB1100M, 9-12	UDZ3V6B, 8-8	US1A, 11-1
SMBJ7.0(C)A, 9-5	TB1300H, 9-13	UDZ3V9B, 8-8	US1B, 11-1
SMBJ7.5(C)A, 9-5	TB1300L, 9-11	UDZ43B, 8-8	US1D, 11-1
SMBJ70(C)A, 9-6	TB1300M, 9-12	UDZ47B, 8-8	US1G, 11-1
SMBJ75(C)A, 9-6	TB1500H, 9-13	UDZ4V3B, 8-8	US1J, 11-1
SMBJ78(C)A, 9-6	TB1500L, 9-11	UDZ4V7B, 8-8	US1K, 11-1
SMBJ8.0(C)A, 9-5	TB1500M, 9-12	UDZ51B, 8-8	US1M, 11-1
SMBJ8.5(C)A, 9-5	TB1800H, 9-13	UDZ56B, 8-8	
SMBJ85(C)A, 9-6	TB1800L, 9-11	UDZ5V1B, 8-8	
SMBJ9.0(C)A, 9-5	TB1800M, 9-12	UDZ5V6B, 8-8	
SMBJ90(C)A, 9-6	TB2300H, 9-13	UDZ6V2B, 8-8	
SMBT70A, 9-6	TB2300L, 9-11	UDZ6V8B, 8-8	
SMCJ10(C)A, 9-8	TB2300M, 9-12	UDZ7V5B, 8-8	W005G, 14-2
SMCJ100, 9-9	TB2600H, 9-13	UDZ8V2B, 8-8	W01G, 14-2
SMCJ11(C)A, 9-8	TB2600L, 9-11	UDZ9V1B, 8-8	W02G, 14-2
SMCJ110, 9-9	TB2600M, 9-12	UF1001, 11-1	W04G, 14-2
SMCJ12(C)A, 9-8	TB3100H, 9-13	UF1002, 11-1	W06G, 14-2
SMCJ120, 9-9	TB3100L, 9-11	UF1003, 11-1	W08G, 14-2
SMCJ13(C)A, 9-8	TB3100M, 9-12	UF1004, 11-1	W10G, 14-2
SMCJ130, 9-9	TB3500H, 9-13	UF1005, 11-1	
SMCJ14(C)A, 9-8	TB3500L, 9-11	UF1006, 11-1	
SMCJ15(C)A, 9-8	TB3500M, 9-12	UF1007, 11-1	
SMCJ150, 9-9	TB640H, 9-13	UF1501, 11-2	
SMCJ16(C)A, 9-8	TB640L, 9-11	UF1501S, 11-2	ZMM5225B, 8-18
SMCJ160, 9-9	TB640M, 9-12	UF1502, 11-2	ZMM5226B, 8-18
SMCJ17(C)A, 9-8	TB720H, 9-13	UF1502S, 11-2	ZMM5227B, 8-18
SMCJ170(C)A, 9-9	TB0720L, 9-11	UF1503, 11-2	ZMM5228B, 8-18
SMCJ18(C)A, 9-8	TB0720M, 9-12	UF1503S, 11-2	ZMM5229B, 8-18
SMCJ20(C)A, 9-8	TB0900H, 9-13	UF1504, 11-2	ZMM5230B, 8-18
SMCJ22(C)A, 9-8	TB0900L, 9-11	UF1504S, 11-2	ZMM5231B, 8-18
SMCJ24(C)A, 9-9	TB0900M, 9-12	UF1505, 11-2	ZMM5232B, 8-18
SMCJ26(C)A, 9-9	TBZ363C20V8, 8-5	UF1505S, 11-2	ZMM5233B, 8-18
SMCJ28(C)A, 9-9	TBZ363C5V5, 8-5	UF1506, 11-2	ZMM5234B, 8-18
SMCJ30(C)A, 9-9	TBZ363C6V4, 8-5	UF1506S, 11-2	ZMM5235B, 8-18
SMCJ33(C)A, 9-9	TBZ363C7V0, 8-5	UF1507, 11-2	ZMM5236B, 8-18
SMCJ36(C)A, 9-9	TLC363C20V8, 8-5	UF1507S, 11-2	ZMM5237B, 8-18
SMCJ40(C)A, 9-9	TLC363C5V5, 8-5	UF2001, 11-3	ZMM5238B, 8-18
SMCJ43(C)A, 9-9	TLC363C6V4, 8-5	UF2002, 11-3	ZMM5239B, 8-18
SMCJ45(C)A, 9-9	TLC363C7V0, 8-5	UF2003, 11-3	ZMM5240B, 8-18
SMCJ48(C)A, 9-9		UF2004, 11-3	ZMM5241B, 8-18
SMCJ5.0(C)A, 9-8		UF2005, 11-3	ZMM5242B, 8-18

---

---

ZMM5243B, 8-18  
ZMM5244B, 8-18  
ZMM5245B, 8-18  
ZMM5246B, 8-18  
ZMM5247B, 8-18  
ZMM5248B, 8-18  
ZMM5249B, 8-18  
ZMM5250B, 8-18  
ZMM5251B, 8-18  
ZMM5252B, 8-18  
ZMM5253B, 8-18  
ZMM5254B, 8-19  
ZMM5255B, 8-19  
ZMM5256B, 8-19  
ZMM5257B, 8-19  
ZMM5258B, 8-19  
ZMM5259B, 8-19  
ZMM5260B, 8-19  
ZMM5261B, 8-19  
ZMM5262B, 8-19  
ZMM5263B, 8-19  
ZMM5264B, 8-19  
ZMM5265B, 8-19  
ZMM5266B, 8-19  
ZMM5267B, 8-19

