

Part Number	V _{RRM} (V)	I _O (A)	@ ^T _C (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz (A)	I _{FSM} 60 Hz (A)	R _{θJC} K/W	I _{RM} (μA)	Notes	Fax-on-Demand
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Single Phase

Schottky

D-70

1BQ20	20	1	45	0.65	1	30	31	60	5	2 3 6 7
1BQ40	40	1	45	0.65	1	30	31	60	5	2 3 6 7

Diode

D-71

DF005S	50	1	40	1	1	30	31	60	5	2 5 6 7 15	82788
DF01S	100	1	40	1	1	30	31	60	5	2 5 6 7 15	82788
DF02S	200	1	40	1	1	30	31	60	5	2 5 6 7 15	82788
DF04S	400	1	40	1	1	30	31	60	5	2 5 6 7 15	82788
DF06S	600	1	40	1	1	30	31	60	5	2 5 6 7 15	82788
DF08S	800	1	40	1	1	30	31	60	5	2 5 6 7 15	82788
DF10S	1000	1	40	1	1	30	31	60	5	2 5 6 7 15	82788

Diode

D-70

DF005M	50	1	40	1	1	30	31	60	5	2 6 7 15	82788
DF01M	100	1	40	1	1	30	31	60	5	2 6 7 15	82788

NOTES:

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|--|--|--|---|
| 1 Available on tape-and-reel | 6 I _o at ambient temperature | 13 Additional packages available | 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 |
| 2 For I _{fsm} : 100% VRRM reapplied, T _j =T _j max.=150°C | 7 R _{th} is junction-to-ambient | 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 | 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC |
| 3 For I _{rm} : T _j = 150°C | 8 Value given for R _{thJC} is per module | 15 For I _{rm} : T _j =25°C | |
| 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. | 9 V _{fm} measured at T _j =25°C | 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | |
| 5 V _{FM} measured at T _j =T _j max. | 10 RMS isolation voltage=2700V - 50Hz | | |
| | 11 RMS isolation voltage=4000V - 50Hz | | |
| | 12 For I _{fsm} : 100% VRRM reapplied, T _j =T _j max. | | |

Part Number	V _R RRM (V)	I _O (A)	@T _C (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz (A)	I _{FSM} 60 Hz (A)	R _θ JC K/W	I _{RM} (μA)	Notes	Fax-on-Demand	
Single Phase											
										D-70	
DF02M	200	1	40	1	1	30	31	60	5	2 6 7 15	82788
DF04M	400	1	40	1	1	30	31	60	5	2 6 7 15	82788
DF06M	600	1	40	1	1	30	31	60	5	2 6 7 15	82788
DF08M	800	1	40	1	1	30	31	60	5	2 6 7 15	82788
DF10M	1000	1	40	1	1	30	31	60	5	2 6 7 15	82788
Diode											
										D-71	
										<i>Available in Europe only</i>	
1B005S	50	1	40	1	1	30	31	60	5	2 5 6 7 15	
1B01S	100	1	40	1	1	30	31	60	5	2 5 6 7 15	
1B02S	200	1	40	1	1	30	31	60	5	2 5 6 7 15	
1B04S	400	1	40	1	1	30	31	60	5	2 5 6 7 15	
1B06S	600	1	40	1	1	30	31	60	5	2 5 6 7 15	
1B08S	800	1	40	1	1	30	31	60	5	2 5 6 7 15	
1B10S	1000	1	40	1	1	30	31	60	5	2 5 6 7 15	
Diode											
										D-70	
										<i>Available in Europe only</i>	
1B005	50	1	40	1	1	30	31	60	5	2 6 7 15	

NOTES:

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|--|--|---|--|
| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj= 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> | <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> | <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> |
|--|--|---|--|

Part Number	V _{RRM} (V)	I _O (A)	@ ^T _C (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz 60 Hz (A) (A)	R _{θJC} K/W	I _{RM} (μA)	Notes	Fax-on-Demand
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Single Phase

D-70

1B01	100	1	40	1	1	30	31	60	5	2 6 7 15
1B02	200	1	40	1	1	30	31	60	5	2 6 7 15
1B04	400	1	40	1	1	30	31	60	5	2 6 7 15
1B06	600	1	40	1	1	30	31	60	5	2 6 7 15
1B08	800	1	40	1	1	30	31	60	5	2 6 7 15
1B10	1000	1	40	1	1	30	31	60	5	2 6 7 15

Diode

D-38

1KAB05E	50	1.5	45	1	1	50	52		10	2 4 6 15	82732
1KAB10E	100	1.5	45	1	1	50	52		10	2 4 6 15	82732
1KAB20E	200	1.5	45	1	1	50	52		10	2 4 6 15	82732
1KAB40E	400	1.5	45	1	1	50	52		10	2 4 6 15	82732
1KAB60E	600	1.5	45	1	1	50	52		10	2 4 6 15	82732
1KAB80E	800	1.5	45	1	1	50	52		10	2 4 6 15	82732
1KAB100E	1000	1.5	45	1	1	50	52		10	2 4 6 15	82732

NOTES:

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|--|--|---|--|
| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj= 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> | <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> | <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> |
|--|--|---|--|

Part Number	V _R RRM (V)	I _O (A)	@ T _C (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz (A)	I _{FSM} 60 Hz (A)	R _θ JC K/W	I _{RM} (μA)	Notes	Fax-on-Demand
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Single Phase

Diode

D-37

2KBB05	50	2	45	1	3	50	52	10	2 3 4 6	82733
2KBB05R	50	2	45	1	3	50	52	10	2 3 4 6	82733
2KBB10	100	2	45	1	3	50	52	10	2 3 4 6	82733
2KBB10R	100	2	45	1	3	50	52	10	2 3 4 6	82733
2KBB20	200	2	45	1	3	50	52	10	2 3 4 6	82733
2KBB20R	200	2	45	1	3	50	52	10	2 3 4 6	82733
2KBB40R	400	2	45	1	3	50	52	10	2 3 4 6	82733
2KBB40	400	2	45	1	3	50	52	10	2 3 4 6	82733
2KBB60R	600	2	45	1	3	50	52	10	2 3 4 6	82733
2KBB60	600	2	45	1	3	50	52	10	2 3 4 6	82733
2KBB80	800	2	45	1	3	50	52	10	2 3 4 6	82733
2KBB80R	800	2	45	1	3	50	52	10	2 3 4 6	82733
2KBB100	1000	2	45	1	3	50	52	10	2 3 4 6	82733
2KBB100R	1000	2	45	1	3	50	52	10	2 3 4 6	82733

NOTES:

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|--|--|---|--|
| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj= 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> | <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> | <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> |
|--|--|---|--|

Part Number	V _{RRM} (V)	I _O (A)	@ T _C (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz (A)	I _{FSM} 60 Hz (A)	R _{θJC} K/W	I _{RM} (μA)	Notes	Fax-on-Demand
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Single Phase

Diode

D-44

2KBP005	50	2	50	1	2	60	63	10	2 3 4 6	82753
2KBP01	100	2	50	1	2	60	63	10	2 3 4 6	82753
2KBP02	200	2	50	1	2	60	63	10	2 3 4 6	82753
2KBP04	400	2	50	1	2	60	63	10	2 3 4 6	82753
2KBP06	600	2	50	1	2	60	63	10	2 3 4 6	82753
2KBP08	800	2	50	1	2	60	63	10	2 3 4 6	82753
2KBP10	1000	2	50	1	2	60	63	10	2 3 4 6	82753

Diode

D-46

KBPC1005	50	3	50	1	1.5	50	55	10	2	82754
KBPC101	100	3	50	1	1.5	50	55	10	2	82754
KBPC102	200	3	50	1	1.5	50	55	10	2	82754
KBPC104	400	3	50	1	1.5	50	55	10	2	82754
KBPC106	600	3	50	1	1.5	50	55	10	2	82754
KBPC108	800	3	50	1	1.5	50	55	10	2	82754

NOTES:

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|--|--|--|---|
| 1 Available on tape-and-reel | 6 I _o at ambient temperature | 13 Additional packages available | 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 |
| 2 For I _{fsm} : 100% VRRM reapplied, T _j =T _j max.=150°C | 7 R _{th} is junction-to-ambient | 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 | 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC |
| 3 For I _{rm} : T _j = 150°C | 8 Value given for R _{thJC} is per module | 15 For I _{rm} : T _j =25°C | |
| 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. | 9 V _{fm} measured at T _j =25°C | 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | |
| 5 V _{FM} measured at T _j =T _j max. | 10 RMS isolation voltage=2700V - 50Hz | | |
| | 11 RMS isolation voltage=4000V - 50Hz | | |
| | 12 For I _{fsm} : 100% VRRM reapplied, T _j =T _j max. | | |

Part Number	V _{RRM} (V)	I _O (A)	@T _C (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz 60 Hz (A) (A)	R _{θJC} K/W	I _{RM} (μA)	Notes	Fax-on-Demand	
Single Phase										
KBPC110	1000	3	50	1	1.5	50	55	10	2	82754
Diode										
KBPC6005	50	6	50	1	3	100	109	10	2 3	82754
KBPC601	100	6	50	1	3	100	109	10	2 3	82754
KBPC602	200	6	50	1	3	100	109	10	2 3	82754
KBPC604	400	6	50	1	3	100	109	10	2 3	82754
KBPC606	600	6	50	1	3	100	109	10	2 3	82754
KBPC608	800	6	50	1	3	100	109	10	2 3	82754
KBPC610	1000	6	50	1	3	100	109	10	2 3	82754
KBPC8005	50	8	50	1	3	125	137	400	2 3	82789
KBPC801	100	8	50	1	3	125	137	400	2 3	82789
KBPC802	200	8	50	1	3	125	137	400	2 3	82789
KBPC804	400	8	50	1	3	125	137	400	2 3	82789
KBPC806	600	8	50	1	3	125	137	400	2 3	82789
KBPC808	800	8	50	1	3	125	137	400	2 3	82789
KBPC810	1000	8	50	1	3	125	137	400	2 3	82789

NOTES:

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|--|--|---|--|
| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj= 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> | <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> | <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> |
|--|--|---|--|

Part Number	V _R RRM (V)	I _O (A)	@T _C (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _θ JC (DC) K/W	Notes	Fax-on-Demand
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Single Phase

Diode

D-34A

Part Number- Europe

100JB05L	50	10	65	1.3	16	125	130	3.5	2 8 9 10	80715	
100JB1L	100	10	65	1.3	16	125	130	3.5	2 8 9 10	80715	
100JB2L	200	10	65	1.3	16	125	130	3.5	2 8 9 10	80715	
100JB4L	400	10	65	1.3	16	125	130	3.5	2 8 9 10	80715	
100JB6L	600	10	65	1.3	16	125	130	3.5	2 8 9 10	80715	
100JB8L	800	10	65	1.3	16	125	130	3.5	2 8 9 10	80715	
100JB10L	1000	10	65	1.3	16	125	130	3.5	2 8 9 10	80715	
100JB12L	1200	10	65	1.3	16	125	130	3.5	2 8 9 10	80715	
100JB14L	1400	10	65	1.3	16	125	130	3.5	2 8 9 10	80715	
100JB16L	1600	10	65	1.3	16	125	130	3.5	2 8 9 10	80715	
250JB05L	26MB05A	50	25	65	1.1	40	335	350	1.7	2 8 9 10	80715
250JB1L	26MB10A	100	25	65	1.1	40	335	350	1.7	2 8 9 10	80715
250JB2L	26MB20A	200	25	65	1.1	40	335	350	1.7	2 8 9 10	80715
250JB4L	26MB40A	400	25	65	1.1	40	335	350	1.7	2 8 9 10	80715
250JB6L	26MB60A	600	25	65	1.1	40	335	350	1.7	2 8 9 10	80715

NOTES:

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|---|--|---|--|
| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> | <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> | <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> |
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Part Number		V _{RRM} (V)	I _O (A)	@ ^T _C (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz (A)	I _{FSM} 60 Hz (A)	R _{θJC} (DC) K/W	Notes	Fax-on-Demand
Single Phase										
250JB8L	26MB80A	800	25	65	1.1 40	335	350	1.7	2 8 9 10	80715
250JB10L	26MB100A	1000	25	65	1.1 40	335	350	1.7	2 8 9 10	80715
250JB12L	26MB120A	1200	25	65	1.1 40	335	350	1.7	2 8 9 10	80715
250JB14L	26MB140A	1400	25	65	1.1 40	335	350	1.7	2 8 9 10	80715
250JB16L	26MB160A	1600	25	65	1.1 40	335	350	1.7	2 8 9 10	80715
35MB05A	36MB05A	50	35	60	1.2 55	400	420	1.2	2 8 9 10	80715
35MB10A	36MB10A	100	35	60	1.2 55	400	420	1.2	2 8 9 10	80715
35MB20A	36MB20A	200	35	60	1.2 55	400	420	1.2	2 8 9 10	80715
35MB40A	36MB40A	400	35	60	1.2 55	400	420	1.2	2 8 9 10	80715
35MB60A	36MB60A	600	35	60	1.2 55	400	420	1.2	2 8 9 10	80715
35MB80A	36MB80A	800	35	60	1.2 55	400	420	1.2	2 8 9 10	80715
35MB100A	36MB100A	1000	35	60	1.2 55	400	420	1.2	2 8 9 10	80715
35MB120A	36MB120A	1200	35	60	1.2 55	400	420	1.2	2 8 9 10	80715
35MB140A	36MB140A	1400	35	60	1.2 55	400	420	1.2	2 8 9 10	80715
35MB160A	36MB160A	1600	35	60	1.2 55	400	420	1.2	2 8 9 10	80715

D-34A

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| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> | <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> | <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> |
|---|--|---|--|

Part Number	V _R RRM (V)	I _O (A)	@T _C (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz (A)	I _{FSM} 60 Hz (A)	R _θ JC (DC) K/W	Notes	Fax-on-Demand
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Three-Phase

Diode

D-63

26MT5	50	25	70	1.26	40	300	314	1.42	2 8 10	80771
26MT10	100	25	70	1.26	40	300	314	1.42	2 8 10	80771
26MT20	200	25	70	1.26	40	300	314	1.42	2 8 10	80771
26MT40	400	25	70	1.26	40	300	314	1.42	2 8 10	80771
26MT60	600	25	70	1.26	40	300	314	1.42	2 8 10	80771
26MT80	800	25	70	1.26	40	300	314	1.42	2 8 10	80771
26MT100	1000	25	70	1.26	40	300	314	1.42	2 8 10	80771
26MT120	1200	25	70	1.26	40	300	314	1.42	2 8 10	80771
26MT140	1400	25	70	1.26	40	300	314	1.42	2 8 10	80771
26MT160	1600	25	70	1.26	40	300	314	1.42	2 8 10	80771
36MT5	50	35	60	1.19	40	400	420	1.16	2 8 10	80771
36MT10	100	35	60	1.19	40	400	420	1.16	2 8 10	80771
36MT20	200	35	60	1.19	40	400	420	1.16	2 8 10	80771
36MT40	400	35	60	1.19	40	400	420	1.16	2 8 10	80771
36MT60	600	35	60	1.19	40	400	420	1.16	2 8 10	80771

NOTES:

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|---|--|---|--|
| <p>1 Available on tape-and-reel</p> <p>2 For I_{FSM}: 100% VRRM reapplied, T_j=T_j max.=150°C</p> <p>3 For I_{RM}: T_j = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 V_{FM} measured at T_j=T_j max.</p> | <p>6 I_O at ambient temperature</p> <p>7 R_{th} is junction-to-ambient</p> <p>8 Value given for R_{th}JC is per module</p> <p>9 V_{FM} measured at T_j=25°C</p> <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For I_{FSM}: 100% VRRM reapplied, T_j=T_j max.</p> | <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For I_{RM}: T_j=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> |
|---|--|---|--|

Part Number	V _R RRM (V)	I _O (A)	@ ^T _C (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz (A)	I _{FSM} 60 Hz (A)	R _θ JC (DC) K/W	Notes	Fax-on-Demand
Three-Phase									D-63
36MT80	800	35	60	1.19 40	400	420	1.16	2 8 10	80771
36MT100	1000	35	60	1.19 40	400	420	1.16	2 8 10	80771
36MT120	1200	35	60	1.19 40	400	420	1.16	2 8 10	80771
36MT140	1400	35	60	1.19 40	400	420	1.16	2 8 10	80771
36MT160	1600	35	60	1.19 40	400	420	1.16	2 8 10	80771
Diode									INT-A-Pak (B13)
60MT80K	800	60	85	1.75 100	350	370	0.37	2 8 11	87109
60MT100K	1000	60	85	1.75 100	350	370	0.37	2 8 11	87109
60MT120K	1200	60	85	1.75 100	350	370	0.37	2 8 11	87109
60MT140K	1400	60	85	1.75 100	350	370	0.37	2 8 11	87109
60MT160K	1600	60	85	1.75 100	350	370	0.37	2 8 11	87109
70MT80K	800	70	85	1.55 100	400	420	0.292	2 8 11	87109
70MT100K	1000	70	85	1.55 100	400	420	0.292	2 8 11	87109
70MT120K	1200	70	85	1.55 100	400	420	0.292	2 8 11	87109
70MT140K	1400	70	85	1.55 100	400	420	0.292	2 8 11	87109
70MT160K	1600	70	85	1.55 100	400	420	0.292	2 8 11	87109

NOTES:

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|---|--|---|--|
| <p>1 Available on tape-and-reel</p> <p>2 For I_{FSM}: 100% VRRM reapplied, T_j=T_j max.=150°C</p> <p>3 For I_{RM}: T_j = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 V_{FM} measured at T_j=T_j max.</p> | <p>6 I_O at ambient temperature</p> <p>7 R_{th} is junction-to-ambient</p> <p>8 Value given for R_{th}JC is per module</p> <p>9 V_{FM} measured at T_j=25°C</p> <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For I_{FSM}: 100% VRRM reapplied, T_j=T_j max.</p> | <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For I_{RM}: T_j=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> |
|---|--|---|--|

Part Number	V _R RRM (V)	I _O (A)	@T _C (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz (A)	I _{FSM} 60 Hz (A)	R _θ JC (DC) K/W	Notes	Fax-on-Demand	
Three-Phase										
90MT80K	800	90	90	1.6	150	650	680	0.21	2 8 11	87110
90MT100K	1000	90	90	1.6	150	650	680	0.21	2 8 11	87110
90MT120K	1200	90	90	1.6	150	650	680	0.21	2 8 11	87110
90MT140K	1400	90	90	1.6	150	650	680	0.21	2 8 11	87110
90MT160K	1600	90	90	1.6	150	650	680	0.21	2 8 11	87110
110MT80K	800	110	90	1.4	150	800	840	0.178	2 8 11	87110
110MT100K	1000	110	90	1.4	150	800	840	0.178	2 8 11	87110
110MT120K	1200	110	90	1.4	150	800	840	0.178	2 8 11	87110
110MT140K	1400	110	90	1.4	150	800	840	0.178	2 8 11	87110
110MT160K	1600	110	90	1.4	150	800	840	0.178	2 8 11	87110
130MT80K	800	130	85	1.63	200	950	1000	0.155	2 8 11	87111
130MT100K	1000	130	85	1.63	200	950	1000	0.155	2 8 11	87111
130MT120K	1200	130	85	1.63	200	950	1000	0.155	2 8 11	87111
130MT140K	1400	130	85	1.63	200	950	1000	0.155	2 8 11	87111
130MT160K	1600	130	85	1.63	200	950	1000	0.155	2 8 11	87111
160MT80K	800	160	85	1.49	200	1200	1260	0.121	2 8 11	87111
160MT100K	1000	160	85	1.49	200	1200	1260	0.121	2 8 11	87111

INT-A-Pak (B13)

NOTES:

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| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj= 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> | <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> | <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> |
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Bridges

Part Number	V _{RRM} (V)	I _O (A)	@ T _C (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz 60 Hz (A) (A)	R _{θJC} (DC) K/W	Notes	Fax-on-Demand
Three-Phase								
160MT120K	1200	160	85	1.49 200	1200 1260	0.121	2 8 11	INT-A-Pak (B13) 87111
160MT140K	1400	160	85	1.49 200	1200 1260	0.121	2 8 11	87111
160MT160K	1600	160	85	1.49 200	1200 1260	0.121	2 8 11	87111

NOTES:

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| <p>1 Available on tape-and-reel</p> <p>2 For I_{FSM}: 100% VRRM reapplied, T_j=T_j max.=150°C</p> <p>3 For I_{RM}: T_j = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 V_{FM} measured at T_j=T_j max.</p> | <p>6 I_O at ambient temperature</p> <p>7 R_{th} is junction-to-ambient</p> <p>8 Value given for R_{thJC} is per module</p> <p>9 V_{FM} measured at T_j=25°C</p> <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For I_{FSM}: 100% VRRM reapplied, T_j=T_j max.</p> | <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For I_{RM}: T_j=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> |
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Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@ T _C (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC} (DC) °C/W	Notes	Fax-on-Demand
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Standard Recovery

D²Pak										
10ETS08S	800	10	105	1.1	10	170	175	2.5	1 12	
10ETS12S	1200	10	105	1.1	10	170	175	2.5	1 12	
10ETS16S	1600	10	105	1.1	10	170	175	2.5	1 12	
20ETS08S	800	20	105	1.1	20	250	260	1.3	1 12	82102
20ETS12S	1200	20	105	1.1	20	250	260	1.3	1 12	82102
20ETS16S	1600	20	105	1.1	20	250	260	1.3	1 12	82102

D-Pak										
8EWS08S	800	8	95	1.1	8.0	170	175	3.0	1 12	
8EWS12S	1200	8	95	1.1	8.0	170	175	3.0	1 12	
8EWS16S	1600	8	95	1.1	8.0	170	175	3.0	1 12	

TO-220AC (2-pin)										
10ETS08	800	10	105	1.1	10	170	175	2.5	12	
10ETS12	1200	10	105	1.1	10	170	175	2.5	12	

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| <ul style="list-style-type: none"> 1 Available on tape-and-reel 2 For I_{fsm}: 100% VRRM reapplied, T_j=T_j max.=150°C 3 For I_{rm}: T_j = 150°C 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. 5 V_{FM} measured at T_j=T_j max. | <ul style="list-style-type: none"> 6 I_o at ambient temperature 7 R_{th} is junction-to-ambient 8 Value given for R_{thJC} is per module 9 V_{fm} measured at T_j=25°C 10 RMS isolation voltage=2700V - 50Hz 11 RMS isolation voltage=4000V - 50Hz 12 For I_{fsm}: 100% VRRM reapplied, T_j=T_j max. | <ul style="list-style-type: none"> 13 Additional packages available 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 15 For I_{rm}: T_j=25°C 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | <ul style="list-style-type: none"> 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC |
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Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@ T _C (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz (A)	I _{FSM} 60 Hz (A)	R _{θJC} (DC) °C/W	Notes	Fax-on-Demand	
Standard Recovery										
TO-220AC (2-pin)										
10ETS16	1600	10	105	1.1	10	170	175	2.5	12	
20ETS08	800	20	105	1.1	20	250	260	1.3	12	82101
20ETS12	1200	20	105	1.1	20	250	260	1.3	12	82101
20ETS16	1600	20	105	1.1	20	250	260	1.3	12	82101
TO-247AC (2-pin)										
40EPS08	800	40	105	1.1	40	400	380	0.60	12	82104
40EPS12	1200	40	105	1.1	40	400	380	0.60	12	82104
40EPS16	1600	40	105	1.1	40	400	380	0.60	12	82104
60EPS08	800	60	105	1.1	60	700	735	0.45	12	
60EPS12	1200	60	105	1.1	60	700	735	0.45	12	
60EPS16	1600	60	105	1.1	60	700	735	0.45	12	

NOTES:

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| <p>1 Available on tape-and-reel</p> <p>2 For I_{fsm}: 100% VRRM reapplied, T_j=T_j max.=150°C</p> <p>3 For I_{rm}: T_j = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 V_{FM} measured at T_j=T_j max.</p> | <p>6 I_o at ambient temperature</p> <p>7 R_{th} is junction-to-ambient</p> <p>8 Value given for R_{thJC} is per module</p> <p>9 V_{fm} measured at T_j=25°C</p> <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For I_{fsm}: 100% VRRM reapplied, T_j=T_j max.</p> | <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For I_{rm}: T_j=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> |
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Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	$@T_C$ (°C)	V_{FM} I_{FM} (V)	$@\pi X$	I_{FSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC(DC)}$ °C/W	Notes	Fax-on-Demand
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Standard Recovery

SMB										
SM4001TR	50	1	75	1.1		28	30	30	1 9 12	
SM4002TR	100	1	75	1.1		28	30	30	1 9 12	
SM4003TR	200	1	75	1.1		28	30	30	1 9 12	
SM4004TR	400	1	75	1.1		28	30	30	1 9 12	
SM4005TR	600	1	75	1.1		28	30	30	1 9 12	
SM4006TR	800	1	75	1.1		28	30	30	1 9 12	
SM4007TR	1000	1	75	1.1		28	30	30	1 9 12	

B-47PP										
8AF05NPP	50	50	150	1.45		600	628	0.6	9 12 16	20086
8AF1NPP	100	50	150	1.45		600	628	0.6	9 12 16	20086
8AF2NPP	200	50	150	1.45		600	628	0.6	9 12 16	20086
8AF4NPP	400	50	150	1.45		600	628	0.6	9 12 16	20086

NOTES:

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|---|---|---|--|
| <p>1 Available on tape-and-reel</p> <p>2 For I_{FSM}: 100% V_{RRM} reapplied, $T_j=T_j$ max.=150°C</p> <p>3 For I_{RM}: $T_j=150^\circ C$</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 V_{FM} measured at $T_j=T_j$ max.</p> | <p>6 I_o at ambient temperature</p> <p>7 R_{th} is junction-to-ambient</p> <p>8 Value given for R_{thJC} is per module</p> <p>9 V_{FM} measured at $T_j=25^\circ C$</p> <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For I_{FSM}: 100% V_{RRM} reapplied, $T_j=T_j$ max.</p> | <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For I_{RM}: $T_j=25^\circ C$</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> |
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Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@ T _C (°C)	V _{FM} @ π X I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC(DC)} °C/W	Notes	Fax-on-Demand
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Standard Recovery

DO-203AA (DO-4)

6F10	100	6	158	1.1	134	141	2.5	9 12 17 18	20009
6F20	200	6	158	1.1	134	141	2.5	9 12 17 18	20009
6F40	400	6	158	1.1	134	141	2.5	9 12 17 18	20009
6F60	600	6	158	1.1	134	141	2.5	9 12 17 18	20009
6F80	800	6	158	1.1	134	141	2.5	9 12 17 18	20009
6F100	1000	6	158	1.1	134	141	2.5	9 12 17 18	20009
6F120	1200	6	158	1.1	134	141	2.5	9 12 17 18	20009
1N1199A	50	12	150	1.35	230	240	2	9 12 17	20084
12F10	100	12	144	1.26	225	235	2	9 12 17 18	20009
1N1200A	100	12	150	1.35	230	240	2	9 12 17	20084
1N1201A	150	12	150	1.35	230	240	2	9 12 17	20084
1N1202A	200	12	150	1.35	230	240	2	9 12 17	20084
12F20	200	12	144	1.26	225	235	2	9 12 17 18	20009
1N1203A	300	12	150	1.35	230	240	2	9 12 17	20084
12F40	400	12	144	1.26	225	235	2	9 12 17 18	20009

NOTES:

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| <p>1 Available on tape-and-reel</p> <p>2 For I_{FSM}: 100% VRRM reapplied, T_j=T_j max.=150°C</p> <p>3 For I_{RM}: T_j = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 V_{FM} measured at T_j=T_j max.</p> | <p>6 I_o at ambient temperature</p> <p>7 R_{th} is junction-to-ambient</p> <p>8 Value given for R_{thJC} is per module</p> <p>9 V_{FM} measured at T_j=25°C</p> <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For I_{FSM}: 100% VRRM reapplied, T_j=T_j max.</p> | <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For I_{RM}: T_j=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> |
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Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@ T _C (°C)	V _{FM} @ π X I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC(DC)} °C/W	Notes	Fax-on-Demand
DO-203AA (DO-4)									
1N1204A	400	12	150	1.35	230	240	2	9 12 17	20084
1N1205A	500	12	150	1.35	230	240	2	9 12 17	20084
1N1206A	600	12	150	1.35	230	240	2	9 12 17	20084
12F60	600	12	144	1.26	225	235	2	9 12 17 18	20009
1N3670A	700	12	150	1.35	230	240	2	9 12 17	20084
12F80	800	12	144	1.26	225	235	2	9 12 17 18	20009
1N3671A	800	12	150	1.35	230	240	2	9 12 17	20084
1N3672A	900	12	150	1.35	230	240	2	9 12 17	20084
12F100	1000	12	144	1.26	225	235	2	9 12 17 18	20009
1N3673A	1000	12	150	1.35	230	240	2	9 12 17	20084
12F120	1200	12	144	1.26	225	235	2	9 12 17 18	20009
16F10	100	16	140	1.23	295	310	1.6	9 12 17 18	20009
16F20	200	16	140	1.23	295	310	1.6	9 12 17 18	20009
16F40	400	16	140	1.23	295	310	1.6	9 12 17 18	20009
16F60	600	16	140	1.23	295	310	1.6	9 12 17 18	20009
16F80	800	16	140	1.23	295	310	1.6	9 12 17 18	20009
16F100	1000	16	140	1.23	295	310	1.6	9 12 17 18	20009

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| <p>1 Available on tape-and-reel</p> <p>2 For I_{FSM}: 100% VRRM reapplied, T_j=T_j max.=150°C</p> <p>3 For I_{RM}: T_j = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at T_j=T_j max.</p> | <p>6 I_o at ambient temperature</p> <p>7 R_{th} is junction-to-ambient</p> <p>8 Value given for R_{thJC} is per module</p> <p>9 V_{FM} measured at T_j=25°C</p> <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For I_{FSM}: 100% VRRM reapplied, T_j=T_j max.</p> | <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For I_{RM}: T_j=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> |
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Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@ T _C (°C)	V _{FM} @ π X I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC(DC)} °C/W	Notes	Fax-on-Demand
DO-203AA (DO-4)									
16F120	1200	16	140	1.23	295	310	1.6	9 12 17 18	20009
25F10	100	25	120	0.9	300	314	1.5	9 12 17 18	80018
25F20	200	25	120	0.9	300	314	1.5	9 12 17 18	80018
25F40	400	25	120	0.9	300	314	1.5	9 12 17 18	80018
25F60	600	25	120	0.9	300	314	1.5	9 12 17 18	80018
25F80	800	25	120	0.9	300	314	1.5	9 12 17 18	80018
25F100	1000	25	120	0.9	300	314	1.5	9 12 17 18	80018
25F120	1200	25	120	0.9	300	314	1.5	9 12 17 18	80018
DO-203AB (DO-5)									
1N3208	50	15	150	1.5	239	250	0.65	12 17	20010
1N3209	100	15	150	1.5	239	250	0.65	12 17	20010
1N3210	200	15	150	1.5	239	250	0.65	12 17	20010
1N3211	300	15	150	1.5	239	250	0.65	12 17	20010
1N3212	400	15	150	1.5	239	250	0.65	12 17	20010
1N3213	500	15	150	1.5	239	250	0.65	12 17	20010
1N3214	600	15	150	1.5	239	250	0.65	12 17	20010

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| <p>1 Available on tape-and-reel</p> <p>2 For I_{fsm}: 100% VRRM reapplied, T_j=T_j max.=150°C</p> <p>3 For I_{rm}: T_j = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at T_j=T_j max.</p> | <p>6 I_o at ambient temperature</p> <p>7 R_{th} is junction-to-ambient</p> <p>8 Value given for R_{thJC} is per module</p> <p>9 V_{fm} measured at T_j=25°C</p> <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For I_{fsm}: 100% VRRM reapplied, T_j=T_j max.</p> | <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For I_{rm}: T_j=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> |
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Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@ T _C (°C)	V _{FM} @ π X I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC(DC)} °C/W	Notes	Fax-on-Demand
Standard Recovery									
DO-203AB (DO-5)									
1N1183	50	35	140	1.7	480	500	1	9 12 17	20087
1N1184	100	35	140	1.7	480	500	1	9 12 17	20087
1N1185	150	35	140	1.7	480	500	1	9 12 17	20087
1N1186	200	35	140	1.7	480	500	1	9 12 17	20087
1N1187	300	35	140	1.7	480	500	1	9 12 17	20087
1N1188	400	35	140	1.7	480	500	1	9 12 17	20087
1N1189	500	35	140	1.7	480	500	1	9 12 17	20087
1N1190	600	35	140	1.7	480	500	1	9 12 17	20087
1N3765	700	35	140	1.8	380	400	1	9 12 17	20087
1N3766	800	35	140	1.8	380	400	1	9 12 17	20087
1N3767	900	35	140	1.8	380	400	1	9 12 17	20087
1N3768	1000	35	140	1.8	380	400	1	9 12 17	20087
1N1183A	50	40	150	1.3	765	800	1.1	9 12 17	20087
1N1184A	100	40	150	1.3	765	800	1.1	9 12 17	20087
40HF10	100	40	140	1.3	480	500	1	9 12 17 18	20014
1N1185A	150	40	150	1.3	765	800	1.1	9 12 17	20087
1N1186A	200	40	150	1.3	765	800	1.1	9 12 17	20087

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| <p>1 Available on tape-and-reel</p> <p>2 For I_{FSM}: 100% VRRM reapplied, T_j=T_j max.=150°C</p> <p>3 For I_{RM}: T_j = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at T_j=T_j max.</p> | <p>6 I_o at ambient temperature</p> <p>7 R_{th} is junction-to-ambient</p> <p>8 Value given for R_{thJC} is per module</p> <p>9 V_{FM} measured at T_j=25°C</p> <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For I_{FSM}: 100% VRRM reapplied, T_j=T_j max.</p> | <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For I_{RM}: T_j=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> |
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Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@ T _C (°C)	V _{FM} @ π X I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC(DC)} °C/W	Notes	Fax-on-Demand
Standard Recovery									
40HF20	200	40	140	1.3	480	500	1	9 12 17 18	20014
1N1187A	300	40	150	1.3	765	800	1.1	9 12 17	20087
1N1188A	400	40	150	1.3	765	800	1.1	9 12 17	20087
40HF40	400	40	140	1.3	480	500	1	9 12 17 18	20014
1N1189A	500	40	150	1.3	765	800	1.1	9 12 17	20087
40HF60	600	40	140	1.3	480	500	1	9 12 17 18	20014
1N1190A	600	40	150	1.3	765	800	1.1	9 12 17	20087
40HF80	800	40	140	1.3	480	500	1	9 12 17 18	20014
40HF100	1000	40	140	1.3	480	500	1	9 12 17 18	20014
40HF120	1200	40	140	1.3	480	500	1	9 12 17 18	20014
40HF140	1400	40	110	1.3	480	500	1	9 12 17 18	20014
40HF160	1600	40	110	1.3	480	500	1	9 12 17 18	20014
1N2128A	50	60	140	1.3	860	900	0.65	9 12 17	20087
1N2129A	100	60	140	1.3	860	900	0.65	9 12 17	20087
1N2130A	150	60	140	1.3	860	900	0.65	9 12 17	20087
1N2131A	200	60	140	1.3	860	900	0.65	9 12 17	20087
1N2133A	300	60	140	1.3	860	900	0.65	9 12 17	20087

DO-203AB (DO-5)

NOTES:

- 1 Available on tape-and-reel
- 2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C
- 3 For Irm: Tj = 150°C
- 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.
- 5 VFM measured at Tj=Tj max.
- 6 Io at ambient temperature
- 7 Rth is junction-to-ambient
- 8 Value given for RthJC is per module
- 9 Vfm measured at Tj=25°C
- 10 RMS isolation voltage=2700V - 50Hz
- 11 RMS isolation voltage=4000V - 50Hz
- 12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.
- 13 Additional packages available
- 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10
- 15 For Irm: Tj=25°C
- 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)
- 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100
- 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC

Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@ T _C (°C)	V _{FM} @ π X I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC(DC)} °C/W	Notes	Fax-on-Demand
Standard Recovery									
1N2135A	400	60	140	1.3	860	900	0.65	9 12 17	20087
1N2137A	500	60	140	1.3	860	900	0.65	9 12 17	20087
1N2138A	600	60	140	1.3	860	900	0.65	9 12 17	20087
70HF10	100	70	140	1.35	1000	1050	0.45	9 12 17 18	20014
70HF20	200	70	140	1.35	1000	1050	0.45	9 12 17 18	20014
70HF40	400	70	140	1.35	1000	1050	0.45	9 12 17 18	20014
70HF60	600	70	140	1.35	1000	1050	0.45	9 12 17 18	20014
70HF80	800	70	140	1.35	1000	1050	0.45	9 12 17 18	20014
70HF100	1000	70	140	1.35	1000	1050	0.45	9 12 17 18	20014
70HF120	1200	70	140	1.35	1000	1050	0.45	9 12 17 18	20014
70HF140	1400	70	110	1.35	1000	1050	0.45	9 12 17 18	20014
70HF160	1600	70	110	1.35	1000	1050	0.45	9 12 17 18	20014
88HF10	100	85	140	1.2	1450	1500	0.35	9 12 17	20014
85HF10	100	85	140	1.2	1450	1500	0.35	9 12 17 18	20014
85HF20	200	85	140	1.2	1450	1500	0.35	9 12 17 18	20014
88HF20	200	85	140	1.2	1450	1500	0.35	9 12 17	20014
88HF40	400	85	140	1.2	1450	1500	0.35	9 12 17	20014

DO-203AB (DO-5)

NOTES:

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| <p>1 Available on tape-and-reel</p> <p>2 For I_{FSM}: 100% VRRM reapplied, T_j=T_j max.=150°C</p> <p>3 For I_{RM}: T_j = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 V_{FM} measured at T_j=T_j max.</p> | <p>6 I_o at ambient temperature</p> <p>7 R_{th} is junction-to-ambient</p> <p>8 Value given for R_{thJC} is per module</p> <p>9 V_{FM} measured at T_j=25°C</p> <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For I_{FSM}: 100% VRRM reapplied, T_j=T_j max.</p> | <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For I_{RM}: T_j=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> |
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Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@ T _C (°C)	V _{FM} @ π X I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC(DC)} °C/W	Notes	Fax-on-Demand
Standard Recovery									
85HF40	400	85	140	1.2	1450	1500	0.35	9 12 17 18	20014
85HF60	600	85	140	1.2	1450	1500	0.35	9 12 17 18	20014
88HF60	600	85	140	1.2	1450	1500	0.35	9 12 17	20014
85HF80	800	85	140	1.2	1450	1500	0.35	9 12 17 18	20014
88HF80	800	85	140	1.2	1450	1500	0.35	9 12 17	20014
85HF100	1000	85	140	1.2	1450	1500	0.35	9 12 17 18	20014
88HF100	1000	85	140	1.2	1450	1500	0.35	9 12 17	20014
85HF120	1200	85	140	1.2	1450	1500	0.35	9 12 17 18	20014
88HF120	1200	85	140	1.2	1450	1500	0.35	9 12 17	20014
85HF140	1400	85	110	1.2	1450	1500	0.35	9 12 17 18	20014
85HF160	1600	85	110	1.2	1450	1500	0.35	9 12 17 18	20014

DO-203AB (DO-5)

NOTES:

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| 1 Available on tape-and-reel | 6 I _o at ambient temperature | 13 Additional packages available | 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 |
| 2 For I _{fsm} : 100% VRRM reapplied, T _j =T _j max.=150°C | 7 R _{th} is junction-to-ambient | 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 | 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC |
| 3 For I _{rm} : T _j = 150°C | 8 Value given for R _{thJC} is per module | 15 For I _{rm} : T _j =25°C | |
| 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. | 9 V _{fm} measured at T _j =25°C | 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | |
| 5 V _{FM} measured at T _j =T _j max. | 10 RMS isolation voltage=2700V - 50Hz | | |
| | 11 RMS isolation voltage=4000V - 50Hz | | |
| | 12 For I _{fsm} : 100% VRRM reapplied, T _j =T _j max. | | |

Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	$@T_{HS}$ (°C)	V_{FM} I_{FM} (V) (A)	I_{FSM} 50 Hz (A)	I_{FSM} 60 Hz (A)	$R_{\theta J-HS}$ °C/W	Notes	Fax-on-Demand
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Standard Recovery

DO-200AA (A-Puk)

SD300C25C	2500	540	55	2.08	1500	5090	5330	0.073	5 12 23	82083
SD300C28C	2800	540	55	2.08	1500	5090	5330	0.073	5 12 23	82083
SD300C32C	3200	540	55	2.08	1500	5090	5330	0.073	5 12 23	82083
SD300C04C	400	650	55	2.08	1500	5090	5330	0.073	5 12 23	82083
SD300C08C	800	650	55	2.08	1500	5090	5330	0.073	5 12 23	82083
SD300C12C	1200	650	55	2.08	1500	5090	5330	0.073	5 12 23	82083
SD300C16C	1600	650	55	2.08	1500	5090	5330	0.073	5 12 23	82083
SD300C20C	2000	650	55	2.08	1500	5090	5330	0.073	5 12 23	82083
SD700C30L	3000	700	55	1.66	1000	6310	6600	0.05	5 12 23 25	82096
SD700C36L	3600	700	55	1.66	1000	6310	6600	0.05	5 12 23 25	82096
SD700C40L	4000	700	55	1.66	1000	6310	6600	0.05	5 12 23 25	82096
SD700C45L	4500	700	55	1.66	1000	6310	6600	0.05	5 12 23 25	82096

NOTES:

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| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> | <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> <p>19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.</p> <p>20 1N3288 series also available.</p> <p>21 VFM for JEDEC types is registered at max Tj.</p> | <p>22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3</p> <p>23 DC operation, double side cooled</p> <p>24 IF(AV) and Rth measured to heat sink</p> <p>25 Ifsm measured at 50% VRRM reapplied</p> <p>26 10 μs square pulse, Tj=Tj max</p> <p>27 RMS isolation voltage=3500V - 50Hz</p> <p>28 Available with spacers and longer screws</p> <p>29 RMS isolation voltage=3000V - 50Hz</p> |
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Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@ T _C (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJHS} °C/W	Notes	Fax-on-Demand	
DO-200AA (A-Puk)										
SD400C04C	400	800	55	1.86	1930	6940	7265	0.073	5 12 23	82084
SD400C08C	800	800	55	1.86	1930	6940	7265	0.073	5 12 23	82084
SD400C12C	1200	800	55	1.86	1930	6940	7265	0.073	5 12 23	82084
SD400C16C	1600	800	55	1.86	1930	6940	7265	0.073	5 12 23	82084
SD400C20C	2000	800	55	1.86	1930	6940	7265	0.073	5 12 23	82084
SD400C24C	2400	800	55	1.86	1930	6940	7265	0.073	5 12 23	82084
SD1100C25L	2500	910	55	1.44	1500	8830	9250	0.05	5 12 23	82073
SD1100C30L	3000	910	55	1.44	1500	8830	9250	0.05	5 12 23	82073
SD1100C32L	3200	910	55	1.44	1500	8830	9250	0.05	5 12 23	82073
SD800C40L	4000	1065	55	1.95	2000	10250	10750	0.031	3 4 5	82085
SD800C45L	4500	1065	55	1.95	2000	10250	10750	0.031	3 4 5	82085
SD1100C25C	2500	1100	55	1.44	1500	8830	9250	0.038	5 12 23	82072
SD1100C30C	3000	1100	55	1.44	1500	8830	9250	0.038	5 12 23	82072
SD1100C32C	3200	1100	55	1.44	1500	8830	9250	0.038	5 12 23	82072

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| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> | <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> <p>19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.</p> <p>20 1N3288 series also available.</p> <p>21 VFM for JEDEC types is registered at max Tj.</p> | <p>22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3</p> <p>23 DC operation, double side cooled</p> <p>24 IF(AV) and Rth measured to heat sink</p> <p>25 Ifsm measured at 50% VRRM reapplied</p> <p>26 10 μs square pulse, Tj=Tj max</p> <p>27 RMS isolation voltage=3500V - 50Hz</p> <p>28 Available with spacers and longer screws</p> <p>29 RMS isolation voltage=3000V - 50Hz</p> |
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Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@ ^T _{HS} (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz (A)	I _{FSM} 60 Hz (A)	R _{θJ-HS} °C/W	Notes	Fax-on-Demand	
DO-200AB (B-Puk)										
SD1100C04L	400	1170	55	1.31	1500	10930	11450	0.05	5 12 23	82073
SD1100C08L	800	1170	55	1.31	1500	10930	11450	0.05	5 12 23	82073
SD1100C12L	1200	1170	55	1.31	1500	10930	11450	0.05	5 12 23	82073
SD1100C16L	1600	1170	55	1.31	1500	10930	11450	0.05	5 12 23	82073
SD1100C20L	2000	1170	55	1.31	1500	10930	11450	0.05	5 12 23	82073
SD800C24L	2400	1180	55	1.66	2000	11440	11980	0.031	3 4 5	82085
SD800C30L	3000	1180	55	1.66	2000	11440	11980	0.031	3 4 5	82085
SD800C36L	3600	1180	55	1.66	2000	11440	11980	0.031	3 4 5	82085
SD1100C04C	400	1400	55	1.31	1500	10930	11450	0.038	5 12 23	82072
SD1100C08C	800	1400	55	1.31	1500	10930	11450	0.038	5 12 23	82072
SD1100C12C	1200	1400	55	1.31	1500	10930	11450	0.038	5 12 23	82072
SD1100C16C	1600	1400	55	1.31	1500	10930	11450	0.038	5 12 23	82072
SD1100C20C	2000	1400	55	1.31	1500	10930	11450	0.038	5 12 23	82072
SD1500C04L	400	1600	55	1.64	3000	14000	14700	0.031	5 12 23	82086

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| <ul style="list-style-type: none"> 1 Available on tape-and-reel 2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C 3 For Irm: Tj = 150°C 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. 5 VFM measured at Tj=Tj max. 6 Io at ambient temperature 7 Rth is junction-to-ambient 8 Value given for RthJC is per module 9 Vfm measured at Tj=25°C | <ul style="list-style-type: none"> 10 RMS isolation voltage=2700V - 50Hz 11 RMS isolation voltage=4000V - 50Hz 12 For Ifsm: 100% VRRM reapplied, Tj=Tj max. 13 Additional packages available 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 15 For Irm: Tj=25°C 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | <ul style="list-style-type: none"> 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC 19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A. 20 1N3288 series also available. 21 VFM for JEDEC types is registered at max Tj. | <ul style="list-style-type: none"> 22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3 23 DC operation, double side cooled 24 IF(AV) and Rth measured to heat sink 25 Ifsm measured at 50% VRRM reapplied 26 10 μs square pulse, Tj=Tj max 27 RMS isolation voltage=3500V - 50Hz 28 Available with spacers and longer screws 29 RMS isolation voltage=3000V - 50Hz |
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Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@ ^T _{HS} (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz (A)	I _{FSM} 60 Hz (A)	R _{θJ-HS} °C/W	Notes	Fax-on-Demand	
DO-200AB (B-Puk)										
SD1500C08L	800	1600	55	1.64	3000	14000	14700	0.031	5 12 23	82086
SD1500C12L	1200	1600	55	1.64	3000	14000	14700	0.031	5 12 23	82086
SD1500C16L	1600	1600	55	1.64	3000	14000	14700	0.031	5 12 23	82086
SD1500C20L	2000	1600	55	1.64	3000	14000	14700	0.031	5 12 23	82086
SD1500C25L	2500	1600	55	1.64	3000	14000	14700	0.031	5 12 23	82086
SD1500C30L	3000	1600	55	1.64	3000	14000	14700	0.031	5 12 23	82086
SD1700C40K	4000	1875	55	2.11	4000	16800	17600	0.02	5 12 23 25	82087
SD1700C45K	4500	1875	55	2.11	4000	16800	17600	0.02	5 12 23 25	82087
SD1700C24K	2400	2080	55	1.81	4000	20200	21150	0.02	5 12 23 25	82087
SD1700C30K	3000	2080	55	1.81	4000	20200	21150	0.02	5 12 23 25	82087
SD1700C36K	3600	2080	55	1.81	4000	20200	21150	0.02	5 12 23 25	82087
SD2000C04L	400	2100	55	1.55	5000	20100	21000	0.031	5 12 23	82088
SD2000C08L	800	2100	55	1.55	5000	20100	21000	0.031	5 12 23	82088
SD2000C10L	1000	2100	55	1.55	5000	20100	21000	0.031	5 12 23	82088

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| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> | <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> <p>19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.</p> <p>20 1N3288 series also available.</p> <p>21 VFM for JEDEC types is registered at max Tj.</p> | <p>22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3</p> <p>23 DC operation, double side cooled</p> <p>24 IF(AV) and Rth measured to heat sink</p> <p>25 Ifsm measured at 50% VRRM reapplied</p> <p>26 10 μs square pulse, Tj=Tj max</p> <p>27 RMS isolation voltage=3500V - 50Hz</p> <p>28 Available with spacers and longer screws</p> <p>29 RMS isolation voltage=3000V - 50Hz</p> |
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Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@ ^T _{HS} (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz (A)	I _{FSM} 60 Hz (A)	R _{θJ-HS} °C/W	Notes	Fax-on-Demand	
DO-200AC (K-Puk)										
SD2500C12K	1200	3000	55	1.41	4000	26050	27300	0.02	5 12 23	82089
SD2500C16K	1600	3000	55	1.41	4000	26050	27300	0.02	5 12 23	82089
SD2500C20K	2000	3000	55	1.41	4000	26050	27300	0.02	5 12 23	82089
SD2500C25K	2500	3000	55	1.41	4000	26050	27300	0.02	5 12 23	82089
SD3000C04K	400	3800	55	1.22	5000	30100	31500	0.02	5 12 23	82090
SD3000C08K	800	3800	55	1.22	5000	30100	31500	0.02	5 12 23	82090
SD3000C10K	1000	3800	55	1.22	5000	30100	31500	0.02	5 12 23	82090
SD4000C30R	3000	4450	55	1.44	5000	48200	50470	0.01	5 12 23	82033
SD4000C34R	3400	4450	55	1.44	5000	48200	50470	0.01	5 12 23	82033
SD4000C38R	3800	4450	55	1.44	5000	48200	50470	0.01	5 12 23	82033
SD4000C40R	4000	4450	55	1.44	5000	48200	50470	0.01	5 12 23	82033
SD5000C20R	2000	5570	55	1.32	3000	57000	59700	0.01	5 12 23	82034
SD5000C24R	2400	5570	55	1.32	3000	57000	59700	0.01	5 12 23	82034
SD5000C26R	2600	5570	55	1.32	3000	57000	59700	0.01	5 12 23	82034

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| <ul style="list-style-type: none"> 1 Available on tape-and-reel 2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C 3 For Irm: Tj = 150°C 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. 5 VFM measured at Tj=Tj max. 6 Io at ambient temperature 7 Rth is junction-to-ambient 8 Value given for RthJC is per module 9 Vfm measured at Tj=25°C | <ul style="list-style-type: none"> 10 RMS isolation voltage=2700V - 50Hz 11 RMS isolation voltage=4000V - 50Hz 12 For Ifsm: 100% VRRM reapplied, Tj=Tj max. 13 Additional packages available 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 15 For Irm: Tj=25°C 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | <ul style="list-style-type: none"> 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC 19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A. 20 1N3288 series also available. 21 VFM for JEDEC types is registered at max Tj. | <ul style="list-style-type: none"> 22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3 23 DC operation, double side cooled 24 IF(AV) and Rth measured to heat sink 25 Ifsm measured at 50% VRRM reapplied 26 10 μs square pulse, Tj=Tj max 27 RMS isolation voltage=3500V - 50Hz 28 Available with spacers and longer screws 29 RMS isolation voltage=3000V - 50Hz |
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Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@ T _{HS} (°C)	V _{FM} @ I _{FM} (V) (A)	I _{FSM} 50 Hz (A)	I _{FSM} 60 Hz (A)	R _{θJ-HS} °C/W	Notes	Fax-on-Demand	
Standard Recovery										
SD5000C30R	3000	5570	55	1.32	3000	57000	59700	0.01	5 12 23	82034
SD6000C12R	1200	6690	55	1.22	3000	64250	67280	0.01	5 12 23	82035
SD6000C16R	1600	6690	55	1.22	3000	64250	67280	0.01	5 12 23	82035
SD6000C20R	2000	6690	55	1.22	3000	64250	67280	0.01	5 12 23	82035
SD6000C25R	2500	6690	55	1.22	3000	64250	67280	0.01	5 12 23	82035
SD8500C04R	400	9570	55	0.97	10000	80300	84100	0.01	5 12 23	82035
SD8500C06R	600	9570	55	0.97	10000	80300	84100	0.01	5 12 23	82035

B-44 (R-Puk)

NOTES:

- 1 Available on tape-and-reel
- 2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C
- 3 For Irm: Tj = 150°C
- 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.
- 5 VFM measured at Tj=Tj max.
- 6 Io at ambient temperature
- 7 Rth is junction-to-ambient
- 8 Value given for RthJC is per module
- 9 Vfm measured at Tj=25°C
- 10 RMS isolation voltage=2700V - 50Hz
- 11 RMS isolation voltage=4000V - 50Hz
- 12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.
- 13 Additional packages available
- 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10
- 15 For Irm: Tj=25°C
- 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)
- 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100
- 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC
- 19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.
- 20 1N3288 series also available.
- 21 VFM for JEDEC types is registered at max Tj.
- 22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3
- 23 DC operation, double side cooled
- 24 IF(AV) and Rth measured to heat sink
- 25 Ifsm measured at 50% VRRM reapplied
- 26 10 μs square pulse, Tj=Tj max
- 27 RMS isolation voltage=3500V - 50Hz
- 28 Available with spacers and longer screws
- 29 RMS isolation voltage=3000V - 50Hz

Diodes

Part Number	V _R RRM (V)	I _F (AV) (A)	@ T _C (°C)	V _{FM} @ π X I _F (AV) (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _θ JC(DC) °C/W	Notes	Fax-on-Demand
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Avalanche

DO-203AA (DO-4)

A6F40	400	6	158	1.1	134	141	2.5	9 12 17 18	20009
A6F60	600	6	158	1.1	134	141	2.5	9 12 17 18	20009
A6F80	800	6	158	1.1	134	141	2.5	9 12 17 18	20009
A6F100	1000	6	158	1.1	134	141	2.5	9 12 17 18	20009
A6F120	1200	6	158	1.1	134	141	2.5	9 12 17 18	20009
A12F40	400	12	144	1.26	225	235	2	9 12 17 18	20009
A12F60	600	12	144	1.26	225	235	2	9 12 17 18	20009
A12F80	800	12	144	1.26	225	235	2	9 12 17 18	20009
A12F100	1000	12	144	1.26	225	235	2	9 12 17 18	20009
A12F120	1200	12	144	1.26	225	235	2	9 12 17 18	20009
A16F40	400	16	140	1.23	295	310	1.6	9 12 17 18	20009
A16F60	600	16	140	1.23	295	310	1.6	9 12 17 18	20009

NOTES:

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| <ul style="list-style-type: none"> 1 Available on tape-and-reel 2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C 3 For Irm: Tj = 150°C 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. 5 VFM measured at Tj=Tj max. 6 Io at ambient temperature 7 Rth is junction-to-ambient 8 Value given for RthJC is per module 9 Vfm measured at Tj=25°C | <ul style="list-style-type: none"> 10 RMS isolation voltage=2700V - 50Hz 11 RMS isolation voltage=4000V - 50Hz 12 For Ifsm: 100% VRRM reapplied, Tj=Tj max. 13 Additional packages available 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 15 For Irm: Tj=25°C 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | <ul style="list-style-type: none"> 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC 19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A. 20 1N3288 series also available. 21 VFM for JEDEC types is registered at max Tj. | <ul style="list-style-type: none"> 22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3 23 DC operation, double side cooled 24 IF(AV) and Rth measured to heat sink 25 Ifsm measured at 50% VRRM reapplied 26 10 μs square pulse, Tj=Tj max 27 RMS isolation voltage=3500V - 50Hz 28 Available with spacers and longer screws 29 RMS isolation voltage=3000V - 50Hz |
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Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@ T _C (°C)	V _{FM} @ π X I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC(DC)} °C/W	Notes	Fax-on-Demand
DO-203AA (DO-4)									
A16F80	800	16	140	1.23	295	310	1.6	9 12 17 18	20009
A16F100	1000	16	140	1.23	295	310	1.6	9 12 17 18	20009
A16F120	1200	16	140	1.23	295	310	1.6	9 12 17 18	20009
A25F40	400	25	120	0.9	300	314	1.5	12 17	82018
A25F60	600	25	120	0.9	300	314	1.5	12 17	82018
A25F80	800	25	120	0.9	300	314	1.5	12 17	82018
A25F100	1000	25	120	0.9	300	314	1.5	12 17	82018
A25F120	1200	25	120	0.9	300	314	1.5	12 17	82018
40HA40	400	40	140	1.3	480	500	1	9 12 17 18	20014
40HA60	600	40	140	1.3	480	500	1	9 12 17 18	20014
40HA80	800	40	140	1.3	480	500	1	9 12 17 18	20014
40HA100	1000	40	140	1.3	480	500	1	9 12 17 18	20014
40HA120	1200	40	110	1.3	480	500	1	9 12 17 18	20014
40HA140	1400	40	110	1.3	480	500	1	9 12 17 18	20014

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| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> | <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> <p>19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.</p> <p>20 1N3288 series also available.</p> <p>21 VFM for JEDEC types is registered at max Tj.</p> | <p>22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3</p> <p>23 DC operation, double side cooled</p> <p>24 IF(AV) and Rth measured to heat sink</p> <p>25 Ifsm measured at 50% VRRM reapplied</p> <p>26 10 μs square pulse, Tj=Tj max</p> <p>27 RMS isolation voltage=3500V - 50Hz</p> <p>28 Available with spacers and longer screws</p> <p>29 RMS isolation voltage=3000V - 50Hz</p> |
|--|---|--|--|

Diodes

Part Number	V _{RRM} (V)	I _{F(AV)} (A)	@ T _C (°C)	V _{FM} @ π X I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC(DC)} °C/W	Notes	Fax-on-Demand
Avalanche									
40HA160	1600	40	110	1.3	480	500	1	9 12 17 18	20014
70HA40	400	70	140	1.35	1000	1050	0.45	9 12 17 18	20014
70HA60	600	70	140	1.35	1000	1050	0.45	9 12 17 18	20014
70HA80	800	70	140	1.35	1000	1050	0.45	9 12 17 18	20014
70HA100	1000	70	140	1.35	1000	1050	0.45	9 12 17 18	20014
70HA120	1200	70	110	1.35	1000	1050	0.45	9 12 17 18	20014
70HA140	1400	70	110	1.35	1000	1050	0.45	9 12 17 18	20014
70HA160	1600	70	110	1.35	1000	1050	0.45	9 12 17 18	20014

DO-203AB (DO-5)

NOTES:

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|--|---|--|--|
| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> | <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> <p>19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.</p> <p>20 1N3288 series also available.</p> <p>21 VFM for JEDEC types is registered at max Tj.</p> | <p>22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3</p> <p>23 DC operation, double side cooled</p> <p>24 IF(AV) and Rth measured to heat sink</p> <p>25 Ifsm measured at 50% VRRM reapplied</p> <p>26 10 μs square pulse, Tj=Tj max</p> <p>27 RMS isolation voltage=3500V - 50Hz</p> <p>28 Available with spacers and longer screws</p> <p>29 RMS isolation voltage=3000V - 50Hz</p> |
|--|---|--|--|

Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	$@T_C$ (°C)	V_{FM} $I_{F(AV)}$ (V)	I_{FSM} 50 Hz (A)	I_{FSM} 60 Hz (A)	$R_{\theta JC}$ (DC) K/W	Notes	Fax-on-Demand
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Power Module

T-MODULE

Diode

T40HF10	100	40	85	1.3	480	500	1.36	2 8 9 27	20094
T40HF20	200	40	85	1.3	480	500	1.36	2 8 9 27	20094
T40HF40	400	40	85	1.3	480	500	1.36	2 8 9 27	20094
T40HF60	600	40	85	1.3	480	500	1.36	2 8 9 27	20094
T40HF80	800	40	85	1.3	480	500	1.36	2 8 9 27	20094
T40HF100	1000	40	85	1.3	480	500	1.36	2 8 9 27	20094
T40HF120	1200	40	85	1.3	480	500	1.36	2 8 9 27	20094
T40HF140	1400	40	85	1.3	480	500	1.36	2 8 9 27	20094
T40HF160	1600	40	85	1.3	480	500	1.36	2 8 9 27	20094
T70HF10	100	70	85	1.35	1000	1050	0.69	2 8 9 27	20094
T70HF20	200	70	85	1.35	1000	1050	0.69	2 8 9 27	20094
T70HF40	400	70	85	1.35	1000	1050	0.69	2 8 9 27	20094

NOTES:

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|--|---|--|--|
| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> | <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> <p>19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.</p> <p>20 1N3288 series also available.</p> <p>21 VFM for JEDEC types is registered at max Tj.</p> | <p>22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3</p> <p>23 DC operation, double side cooled</p> <p>24 IF(AV) and Rth measured to heat sink</p> <p>25 Ifsm measured at 50% VRRM reapplied</p> <p>26 10 μs square pulse, Tj=Tj max</p> <p>27 RMS isolation voltage=3500V - 50Hz</p> <p>28 Available with spacers and longer screws</p> <p>29 RMS isolation voltage=3000V - 50Hz</p> |
|--|---|--|--|

Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	$@T_C$ (°C)	V_{FM} $I_{F(AV)}$ (V)	$@\pi X$	I_{FSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC}$ (DC) K/W	Notes	Fax-on-Demand
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Power Module

T-MODULE

Diode

T70HF60	600	70	85	1.35		1000	1050	0.69	2 8 9 27	20094
T70HF80	800	70	85	1.35		1000	1050	0.69	2 8 9 27	20094
T70HF100	1000	70	85	1.35		1000	1050	0.69	2 8 9 27	20094
T70HF120	1200	70	85	1.35		1000	1050	0.69	2 8 9 27	20094
T70HF140	1400	70	85	1.35		1000	1050	0.69	2 8 9 27	20094
T70HF160	1600	70	85	1.35		1000	1050	0.69	2 8 9 27	20094
T85HF10	100	85	85	1.27		1450	1500	0.62	2 8 9 27	20094
T85HF20	200	85	85	1.27		1450	1500	0.62	2 8 9 27	20094
T85HF40	400	85	85	1.27		1450	1500	0.62	2 8 9 27	20094
T85HF60	600	85	85	1.27		1450	1500	0.62	2 8 9 27	20094
T85HF80	800	85	85	1.27		1450	1500	0.62	2 8 9 27	20094
T85HF100	1000	85	85	1.27		1450	1500	0.62	2 8 9 27	20094

NOTES:

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|--|--|---|--|
| 1 Available on tape-and-reel | 10 RMS isolation voltage=2700V - 50Hz | 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 | 22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3 |
| 2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C | 11 RMS isolation voltage=4000V - 50Hz | 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC | 23 DC operation, double side cooled |
| 3 For Irm: Tj = 150°C | 12 For Ifsm: 100% VRRM reapplied, Tj=Tj max. | 19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A. | 24 IF(AV) and Rth measured to heat sink |
| 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. | 13 Additional packages available | 20 1N3288 series also available. | 25 Ifsm measured at 50% VRRM reapplied |
| 5 VFM measured at Tj=Tj max. | 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 | 21 VFM for JEDEC types is registered at max Tj. | 26 10 μs square pulse, Tj=Tj max |
| 6 Io at ambient temperature | 15 For Irm: Tj=25°C | | 27 RMS isolation voltage=3500V - 50Hz |
| 7 Rth is junction-to-ambient | 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | | 28 Available with spacers and longer screws |
| 8 Value given for RthJC is per module | | | 29 RMS isolation voltage=3000V - 50Hz |
| 9 Vfm measured at Tj=25°C | | | |

Diodes

Part Number	V _R RRM (V)	I _F (AV) (A)	@ T _C (°C)	V _{FM} @ π X I _F (AV) (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _θ JC (DC) K/W	Notes	Fax-on-Demand
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Power Module

T-MODULE

Diode

T85HF120	1200	85	85	1.27	1450	1500	0.62	2 8 9 27	20094
T85HF140	1400	85	85	1.27	1450	1500	0.62	2 8 9 27	20094
T85HF160	1600	85	85	1.27	1450	1500	0.62	2 8 9 27	20094
T110HF10	100	110	85	1.35	1700	1780	0.47	2 8 9 27	20094
T110HF20	200	110	85	1.35	1700	1780	0.47	2 8 9 27	20094
T110HF40	400	110	85	1.35	1700	1780	0.47	2 8 9 27	20094
T110HF60	600	110	85	1.35	1700	1780	0.47	2 8 9 27	20094
T110HF80	800	110	85	1.35	1700	1780	0.47	2 8 9 27	20094
T110HF100	1000	110	85	1.35	1700	1780	0.47	2 8 9 27	20094
T110HF120	1200	110	85	1.35	1700	1780	0.47	2 8 9 27	20094
T110HF140	1400	110	85	1.35	1700	1780	0.47	2 8 9 27	20094
T110HF160	1600	110	85	1.35	1700	1780	0.47	2 8 9 27	20094

NOTES:

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|--|---|--|--|
| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> | <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> <p>19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.</p> <p>20 1N3288 series also available.</p> <p>21 VFM for JEDEC types is registered at max Tj.</p> | <p>22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3</p> <p>23 DC operation, double side cooled</p> <p>24 IF(AV) and Rth measured to heat sink</p> <p>25 Ifsm measured at 50% VRRM reapplied</p> <p>26 10 μs square pulse, Tj=Tj max</p> <p>27 RMS isolation voltage=3500V - 50Hz</p> <p>28 Available with spacers and longer screws</p> <p>29 RMS isolation voltage=3000V - 50Hz</p> |
|--|---|--|--|

Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	$@T_C$ (°C)	V_{FM} $I_{F(AV)}$ (V)	$@\pi X$	I_{FSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC}$ (DC) K/W	Notes	Fax-on-Demand
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Power Module

Add-A-Pak

Diode

IRKE56/04	400	60	100	1.51		1350	1420	0.5	2 8 9 27	27140
IRKE56/06	600	60	100	1.51		1350	1420	0.5	2 8 9 27	27140
IRKE56/08	800	60	100	1.51		1350	1420	0.5	2 8 9 27	27140
IRKE56/10	1000	60	100	1.51		1350	1420	0.5	2 8 9 27	27140
IRKE56/12	1200	60	100	1.51		1350	1420	0.5	2 8 9 27	27140
IRKE56/14	1400	60	100	1.51		1350	1420	0.5	2 8 9 27	27140
IRKE56/16	1600	60	100	1.51		1350	1420	0.5	2 8 9 27	27140
IRKE71/04	400	80	100	1.5		1500	1570	0.4	2 8 9 27	27140
IRKE71/06	600	80	100	1.5		1500	1570	0.4	2 8 9 27	27140
IRKE71/08	800	80	100	1.5		1500	1570	0.4	2 8 9 27	27140
IRKE71/10	1000	80	100	1.5		1500	1570	0.4	2 8 9 27	27140
IRKE71/12	1200	80	100	1.5		1500	1570	0.4	2 8 9 27	27140

NOTES:

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|--|---|--|--|
| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> | <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> <p>19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.</p> <p>20 1N3288 series also available.</p> <p>21 VFM for JEDEC types is registered at max Tj.</p> | <p>22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3</p> <p>23 DC operation, double side cooled</p> <p>24 IF(AV) and Rth measured to heat sink</p> <p>25 Ifsm measured at 50% VRRM reapplied</p> <p>26 10 μs square pulse, Tj=Tj max</p> <p>27 RMS isolation voltage=3500V - 50Hz</p> <p>28 Available with spacers and longer screws</p> <p>29 RMS isolation voltage=3000V - 50Hz</p> |
|--|---|--|--|

Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	$@T_C$ (°C)	V_{FM} $I_{F(AV)}$ (V)	$@\pi X$	I_{FSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC}$ (DC) K/W	Notes	Fax-on-Demand
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Power Module

Add-A-Pak

Diode

IRKE71/14	1400	80	100	1.5		1500	1570	0.4	2 8 9 27	27140
IRKE71/16	1600	80	100	1.5		1500	1570	0.4	2 8 9 27	27140
IRKE91/04	400	100	100	1.45		1700	1780	0.35	2 8 9 27	27141
IRKE91/06	600	100	100	1.45		1700	1780	0.35	2 8 9 27	27141
IRKE91/08	800	100	100	1.45		1700	1780	0.35	2 8 9 27	27141
IRKE91/10	1000	100	100	1.45		1700	1780	0.35	2 8 9 27	27141
IRKE91/12	1200	100	100	1.45		1700	1780	0.35	2 8 9 27	27141
IRKE91/14	1400	100	100	1.45		1700	1780	0.35	2 8 9 27	27141
IRKE91/16	1600	100	100	1.45		1700	1780	0.35	2 8 9 27	27141

NOTES:

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|--|--|---|--|
| 1 Available on tape-and-reel | 10 RMS isolation voltage=2700V - 50Hz | 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 | 22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3 |
| 2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C | 11 RMS isolation voltage=4000V - 50Hz | 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC | 23 DC operation, double side cooled |
| 3 For Irm: Tj = 150°C | 12 For Ifsm: 100% VRRM reapplied, Tj=Tj max. | 19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A. | 24 IF(AV) and Rth measured to heat sink |
| 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. | 13 Additional packages available | 20 1N3288 series also available. | 25 Ifsm measured at 50% VRRM reapplied |
| 5 VFM measured at Tj=Tj max. | 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 | 21 VFM for JEDEC types is registered at max Tj. | 26 10 μs square pulse, Tj=Tj max |
| 6 Io at ambient temperature | 15 For Irm: Tj=25°C | | 27 RMS isolation voltage=3500V - 50Hz |
| 7 Rth is junction-to-ambient | 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | | 28 Available with spacers and longer screws |
| 8 Value given for RthJC is per module | | | 29 RMS isolation voltage=3000V - 50Hz |
| 9 Vfm measured at Tj=25°C | | | |

Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	$@T_C$ (°C)	V_{FM} $I_{F(AV)}$ (V)	I_{FSM} 50 Hz (A)	I_{FSM} 60 Hz (A)	$R_{\theta JC}$ (DC) K/W	Notes	Fax-on-Demand
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Power Module

INT-A-Pak

Diode

IRKE166-04	400	165	100	1.69	3350	3500	0.2	2 8 9 28 29	87096
IRKE166-08	800	165	100	1.69	3350	3500	0.2	2 8 9 28 29	87096
IRKE166-12	1200	165	100	1.69	3350	3500	0.2	2 8 9 28 29	87096
IRKE166-16	1600	165	100	1.69	3350	3500	0.2	2 8 9 28 29	87096
IRKE166-20	2000	165	100	1.69	3350	3500	0.2	2 8 9 28 29	87096
IRKE196-04	400	195	100	1.38	4000	4200	0.2	2 8 9 28 29	87096
IRKE196-08	800	195	100	1.38	4000	4200	0.2	2 8 9 28 29	87096
IRKE196-12	1200	195	100	1.38	4000	4200	0.2	2 8 9 28 29	87096
IRKE196-16	1600	195	100	1.38	4000	4200	0.2	2 8 9 28 29	87096
IRKE196-20	2000	195	100	1.38	4000	4200	0.2	2 8 9 28 29	87096
IRKE236-04	400	230	100	1.27	5500	5700	0.17	2 8 9 28 29	87096
IRKE236-08	800	230	100	1.27	5500	5700	0.17	2 8 9 28 29	87096

NOTES:

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| 1 Available on tape-and-reel | 10 RMS isolation voltage=2700V - 50Hz | 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 | 22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3 |
| 2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C | 11 RMS isolation voltage=4000V - 50Hz | 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC | 23 DC operation, double side cooled |
| 3 For Irm: Tj = 150°C | 12 For Ifsm: 100% VRRM reapplied, Tj=Tj max. | 19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A. | 24 IF(AV) and Rth measured to heat sink |
| 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. | 13 Additional packages available | 20 1N3288 series also available. | 25 Ifsm measured at 50% VRRM reapplied |
| 5 VFM measured at Tj=Tj max. | 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 | 21 VFM for JEDEC types is registered at max Tj. | 26 10 μs square pulse, Tj=Tj max |
| 6 Io at ambient temperature | 15 For Irm: Tj=25°C | | 27 RMS isolation voltage=3500V - 50Hz |
| 7 Rth is junction-to-ambient | 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | | 28 Available with spacers and longer screws |
| 8 Value given for RthJC is per module | | | 29 RMS isolation voltage=3000V - 50Hz |
| 9 Vfm measured at Tj=25°C | | | |

Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	$@T_C$ (°C)	V_{FM} $I_{F(AV)}$ (V)	$@\pi X$	I_{FSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC}$ (DC) K/W	Notes	Fax-on-Demand
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Power Module

INT-A-Pak

Diode

IRKE236-12	1200	230	100	1.27		5500	5700	0.17	2 8 9 28 29	87096
IRKE236-16	1600	230	100	1.27		5500	5700	0.17	2 8 9 28 29	87096
IRKE236-20	2000	230	100	1.27		5500	5700	0.17	2 8 9 28 29	87096
IRKE236-24	2400	230	100	1.27		5500	5700	0.17	2 8 9 28 29	87096

NOTES:

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|--|---|--|--|
| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> | <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> <p>19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.</p> <p>20 1N3288 series also available.</p> <p>21 VFM for JEDEC types is registered at max Tj.</p> | <p>22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3</p> <p>23 DC operation, double side cooled</p> <p>24 IF(AV) and Rth measured to heat sink</p> <p>25 Ifsm measured at 50% VRRM reapplied</p> <p>26 10 μs square pulse, Tj=Tj max</p> <p>27 RMS isolation voltage=3500V - 50Hz</p> <p>28 Available with spacers and longer screws</p> <p>29 RMS isolation voltage=3000V - 50Hz</p> |
|--|---|--|--|

Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	$@T_C$ (°C)	V_{FM} $I_{F(AV)}$ (V)	$@\pi X$	I_{FSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC}$ (DC) K/W	Notes	Fax-on-Demand
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Power Module

MAGN-A-Pak

Diode

IRKE250-04	400	250	100	1.29		5900	6180	0.16	2 8 9 29	87090
IRKE250-08	800	250	100	1.29		5900	6180	0.16	2 8 9 29	87090
IRKE250-12	1200	250	100	1.29		5900	6180	0.16	2 8 9 29	87090
IRKE250-16	1600	250	100	1.29		5900	6180	0.16	2 8 9 29	87090
IRKE250-20	2000	250	100	1.29		5900	6180	0.16	2 8 9 29	87090
IRKE270-04	400	270	100	1.48		7500	7850	0.125	2 8 9 29	87090
IRKE270-08	800	270	100	1.48		7500	7850	0.125	2 8 9 29	87090
IRKE270-12	1200	270	100	1.48		7500	7850	0.125	2 8 9 29	87090
IRKE270-16	1600	270	100	1.48		7500	7850	0.125	2 8 9 29	87090
IRKE270-20	2000	270	100	1.48		7500	7850	0.125	2 8 9 29	87090
IRKE270-24	2400	270	100	1.48		7500	7850	0.125	2 8 9 29	87090
IRKE270-30	3000	270	100	1.48		7500	7850	0.125	2 8 9 29	87090

NOTES:

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| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> | <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> <p>19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.</p> <p>20 1N3288 series also available.</p> <p>21 VFM for JEDEC types is registered at max Tj.</p> | <p>22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3</p> <p>23 DC operation, double side cooled</p> <p>24 IF(AV) and Rth measured to heat sink</p> <p>25 Ifsm measured at 50% VRRM reapplied</p> <p>26 10 μs square pulse, Tj=Tj max</p> <p>27 RMS isolation voltage=3500V - 50Hz</p> <p>28 Available with spacers and longer screws</p> <p>29 RMS isolation voltage=3000V - 50Hz</p> |
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Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	$@T_C$ (°C)	V_{FM} $I_{F(AV)}$ (V)	$@\pi X$	I_{FSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC}$ (DC) K/W	Notes	Fax-on-Demand
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Power Module

MAGN-A-Pak

Diode

IRKE320-04	400	320	100	1.28		8500	8900	0.125	2 8 9 29	87090
IRKE320-08	800	320	100	1.28		8500	8900	0.125	2 8 9 29	87090
IRKE320-12	1200	320	100	1.28		8500	8900	0.125	2 8 9 29	87090
IRKE320-16	1600	320	100	1.28		8500	8900	0.125	2 8 9 29	87090
IRKE320-20	2000	320	100	1.28		8500	8900	0.125	2 8 9 29	87090

NOTES:

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| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> | <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> <p>19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.</p> <p>20 1N3288 series also available.</p> <p>21 VFM for JEDEC types is registered at max Tj.</p> | <p>22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3</p> <p>23 DC operation, double side cooled</p> <p>24 IF(AV) and Rth measured to heat sink</p> <p>25 Ifsm measured at 50% VRRM reapplied</p> <p>26 10 μs square pulse, Tj=Tj max</p> <p>27 RMS isolation voltage=3500V - 50Hz</p> <p>28 Available with spacers and longer screws</p> <p>29 RMS isolation voltage=3000V - 50Hz</p> |
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Diodes

Part Number	Center tap common cathode	Center tap common anode	V _{RRM} (V)	I _{F(AV)} (A)	@ T _C (°C)	V _{FM} @ π X I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC} (DC) K/W	Notes	Fax-on-Demand
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Power Module

Add-A-Pak

Diode / Diode

IRKD56/04	IRKC56/04	IRKJ56/04	400	60	100	1.51	1350	1420	0.25	2 8 9 27	27140
IRKD56/06	IRKC56/06	IRKJ56/06	600	60	100	1.51	1350	1420	0.25	2 8 9 27	27140
IRKD56/08	IRKC56/08	IRKJ56/08	800	60	100	1.51	1350	1420	0.25	2 8 9 27	27140
IRKD56/10	IRKC56/10	IRKJ56/10	1000	60	100	1.51	1350	1420	0.25	2 8 9 27	27140
IRKD56/12	IRKC56/12	IRKJ56/12	1200	60	100	1.51	1350	1420	0.25	2 8 9 27	27140
IRKD56/14	IRKC56/14	IRKJ56/14	1400	60	100	1.51	1350	1420	0.25	2 8 9 27	27140
IRKD56/16	IRKC56/16	IRKJ56/16	1600	60	100	1.51	1350	1420	0.25	2 8 9 27	27140
IRKD71/04	IRKC71/04	IRKJ71/04	400	80	100	1.5	1500	1570	0.2	2 8 9 27	27140
IRKD71/06	IRKC71/06	IRKJ71/06	600	80	100	1.5	1500	1570	0.2	2 8 9 27	27140
IRKD71/08	IRKC71/08	IRKJ71/08	800	80	100	1.5	1500	1570	0.2	2 8 9 27	27140
IRKD71/10	IRKC71/10	IRKJ71/10	1000	80	100	1.5	1500	1570	0.2	2 8 9 27	27140
IRKD71/12	IRKC71/12	IRKJ71/12	1200	80	100	1.5	1500	1570	0.2	2 8 9 27	27140

NOTES:

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|--|---|--|--|
| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> | <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> <p>19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.</p> <p>20 1N3288 series also available.</p> <p>21 VFM for JEDEC types is registered at max Tj.</p> | <p>22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3</p> <p>23 DC operation, double side cooled</p> <p>24 IF(AV) and Rth measured to heat sink</p> <p>25 Ifsm measured at 50% VRRM reapplied</p> <p>26 10 μs square pulse, Tj=Tj max</p> <p>27 RMS isolation voltage=3500V - 50Hz</p> <p>28 Available with spacers and longer screws</p> <p>29 RMS isolation voltage=3000V - 50Hz</p> |
|--|---|--|--|

Diodes

Part Number	Center tap common cathode	Center tap common anode	V _{RRM} (V)	I _{F(AV)} (A)	@ T _C (°C)	V _{FM} @ π X I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC} (DC) K/W	Notes	Fax-on-Demand
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Power Module

Add-A-Pak

Diode / Diode

IRKD71/14	IRKC71/14	IRKJ71/14	1400	80	100	1.5	1500	1570	0.2	2 8 9 27	27140
IRKD71/16	IRKC71/16	IRKJ71/16	1600	80	100	1.5	1500	1570	0.2	2 8 9 27	27140
IRKD91/04	IRKC91/04	IRKJ91/04	400	100	100	1.45	1700	1780	0.175	2 8 9 27	27141
IRKD91/06	IRKC91/06	IRKJ91/06	600	100	100	1.45	1700	1780	0.175	2 8 9 27	27141
IRKD91/08	IRKC91/08	IRKJ91/08	800	100	100	1.45	1700	1780	0.175	2 8 9 27	27141
IRKD91/10	IRKC91/10	IRKJ91/10	1000	100	100	1.45	1700	1780	0.175	2 8 9 27	27141
IRKD91/12	IRKC91/12	IRKJ91/12	1200	100	100	1.45	1700	1780	0.175	2 8 9 27	27141
IRKD91/14	IRKC91/14	IRKJ91/14	1400	100	100	1.45	1700	1780	0.175	2 8 9 27	27141
IRKD91/16	IRKC91/16	IRKJ91/16	1600	100	100	1.45	1700	1780	0.175	2 8 9 27	27141

NOTES:

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|--|---|--|--|
| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> | <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> <p>19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.</p> <p>20 1N3288 series also available.</p> <p>21 VFM for JEDEC types is registered at max Tj.</p> | <p>22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3</p> <p>23 DC operation, double side cooled</p> <p>24 IF(AV) and Rth measured to heat sink</p> <p>25 Ifsm measured at 50% VRRM reapplied</p> <p>26 10 μs square pulse, Tj=Tj max</p> <p>27 RMS isolation voltage=3500V - 50Hz</p> <p>28 Available with spacers and longer screws</p> <p>29 RMS isolation voltage=3000V - 50Hz</p> |
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Diodes

Part Number	Center tap common cathode	Center tap common anode	V _{RRM} (V)	I _{F(AV)} (A)	@ T _C (°C)	V _{FM} @ π X I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC} (DC) K/W	Notes	Fax-on-Demand
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Power Module

INT-A-Pak

Diode / Diode

IRKD166-04	IRKC166-04	IRKJ166-04	400	165	100	1.69	3350	3500	0.1	2 8 9 28 29	87096
IRKD166-08	IRKC166-08	IRKJ166-08	800	165	100	1.69	3350	3500	0.1	2 8 9 28 29	87096
IRKD166-12	IRKC166-12	IRKJ166-12	1200	165	100	1.69	3350	3500	0.1	2 8 9 28 29	87096
IRKD166-16	IRKC166-16	IRKJ166-16	1600	165	100	1.69	3350	3500	0.1	2 8 9 28 29	87096
IRKD166-20	IRKC166-20	IRKJ166-20	2000	165	100	1.69	3350	3500	0.1	2 8 9 28 29	87096
IRKD196-04	IRKC196-04	IRKJ196-04	400	195	100	1.38	4000	4200	0.1	2 8 9 28 29	87096
IRKD196-08	IRKC196-08	IRKJ196-08	800	195	100	1.38	4000	4200	0.1	2 8 9 28 29	87096
IRKD196-12	IRKC196-12	IRKJ196-12	1200	195	100	1.38	4000	4200	0.1	2 8 9 28 29	87096
IRKD196-16	IRKC196-16	IRKJ196-16	1600	195	100	1.38	4000	4200	0.1	2 8 9 28 29	87096
IRKD196-20	IRKC196-20	IRKJ196-20	2000	195	100	1.38	4000	4200	0.1	2 8 9 28 29	87096
IRKD196-24	IRKC196-24	IRKJ196-24	2400	195	100	1.38	4000	4200	0.1	2 8 9 28 29	87096
IRKD236-04	IRKC236-04	IRKJ236-04	400	230	100	1.27	5500	5700	0.085	2 8 9 28 29	87096

NOTES:

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|--|---|--|--|
| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> | <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> <p>19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.</p> <p>20 1N3288 series also available.</p> <p>21 VFM for JEDEC types is registered at max Tj.</p> | <p>22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3</p> <p>23 DC operation, double side cooled</p> <p>24 IF(AV) and Rth measured to heat sink</p> <p>25 Ifsm measured at 50% VRRM reapplied</p> <p>26 10 μs square pulse, Tj=Tj max</p> <p>27 RMS isolation voltage=3500V - 50Hz</p> <p>28 Available with spacers and longer screws</p> <p>29 RMS isolation voltage=3000V - 50Hz</p> |
|--|---|--|--|

Diodes

Part Number	Center tap common cathode	Center tap common anode	V _{RRM} (V)	I _{F(AV)} (A)	@ T _C (°C)	V _{FM} I _{F(AV)} (V)	@ π X	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC} (DC) K/W	Notes	Fax-on-Demand
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Power Module

INT-A-Pak

Diode / Diode

IRKD236-08	IRKC236-08	IRKJ236-08	800	230	100	1.27		5500	5700	0.085	2 8 9 28 29	87096
IRKD236-12	IRKC236-12	IRKJ236-12	1200	230	100	1.27		5500	5700	0.085	2 8 9 28 29	87096
IRKD236-16	IRKC236-16	IRKJ236-16	1600	230	100	1.27		5500	5700	0.085	2 8 9 28 29	87096
IRKD236-20	IRKC236-20	IRKJ236-20	2000	230	100	1.27		5500	5700	0.085	2 8 9 28 29	87096
IRKD236-22	IRKC236-22	IRKJ236-22	2200	230	100	1.27		5500	5700	0.085	2 8 9 28 29	87096
IRKD236-24	IRKC236-24	IRKJ236-24	2400	230	100	1.27		5500	5700	0.085	2 8 9 28 29	87096

NOTES:

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|--|---|--|--|
| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> | <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> <p>19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.</p> <p>20 1N3288 series also available.</p> <p>21 VFM for JEDEC types is registered at max Tj.</p> | <p>22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3</p> <p>23 DC operation, double side cooled</p> <p>24 IF(AV) and Rth measured to heat sink</p> <p>25 Ifsm measured at 50% VRRM reapplied</p> <p>26 10 μs square pulse, Tj=Tj max</p> <p>27 RMS isolation voltage=3500V - 50Hz</p> <p>28 Available with spacers and longer screws</p> <p>29 RMS isolation voltage=3000V - 50Hz</p> |
|--|---|--|--|

Diodes

Part Number	Center tap common cathode	Center tap common anode	V _{RRM} (V)	I _{F(AV)} (A)	@ T _C (°C)	V _{FM} @ π X I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC} (DC) K/W	Notes	Fax-on-Demand
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Power Module

MAGN-A-Pak

Diode / Diode

IRKD250-04	IRKC250-04	IRKJ250-04	400	250	100	1.29	5900	6180	0.08	2 8 9 29	87090
IRKD250-08	IRKC250-08	IRKJ250-08	800	250	100	1.29	5900	6180	0.08	2 8 9 29	87090
IRKD250-12	IRKC250-12	IRKJ250-12	1200	250	100	1.29	5900	6180	0.08	2 8 9 29	87090
IRKD250-16	IRKC250-16	IRKJ250-16	1600	250	100	1.29	5900	6180	0.08	2 8 9 29	87090
IRKD250-20	IRKC250-20	IRKJ250-20	2000	250	100	1.29	5900	6180	0.08	2 8 9 29	87090
IRKD270-04	IRKC270-04	IRKJ270-04	400	270	100	1.48	7500	7850	0.063	2 8 9 29	87090
IRKD270-08	IRKC270-08	IRKJ270-08	800	270	100	1.48	7500	7850	0.063	2 8 9 29	87090
IRKD270-12	IRKC270-12	IRKJ270-12	1200	270	100	1.48	7500	7850	0.063	2 8 9 29	87090
IRKD270-16	IRKC270-16	IRKJ270-16	1600	270	100	1.48	7500	7850	0.063	2 8 9 29	87090
IRKD270-20	IRKC270-20	IRKJ270-20	2000	270	100	1.48	7500	7850	0.063	2 8 9 29	87090
IRKD270-24	IRKC270-24	IRKJ270-24	2400	270	100	1.48	7500	7850	0.063	2 8 9 29	87090
IRKD270-30	IRKC270-30	IRKJ270-30	3000	270	100	1.48	7500	7850	0.063	2 8 9 29	87090

NOTES:

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|--|---|--|--|
| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> | <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> <p>19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.</p> <p>20 1N3288 series also available.</p> <p>21 VFM for JEDEC types is registered at max Tj.</p> | <p>22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3</p> <p>23 DC operation, double side cooled</p> <p>24 IF(AV) and Rth measured to heat sink</p> <p>25 Ifsm measured at 50% VRRM reapplied</p> <p>26 10 μs square pulse, Tj=Tj max</p> <p>27 RMS isolation voltage=3500V - 50Hz</p> <p>28 Available with spacers and longer screws</p> <p>29 RMS isolation voltage=3000V - 50Hz</p> |
|--|---|--|--|

Diodes

Part Number	Center tap common cathode	Center tap common anode	V _{RRM} (V)	I _{F(AV)} (A)	@ T _C (°C)	V _{FM} @ π X I _{F(AV)} (V)	I _{FSM} 50 Hz (A)	60 Hz (A)	R _{θJC} (DC) K/W	Notes	Fax-on-Demand
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Power Module

MAGN-A-Pak

Diode / Diode

IRKD320-04	IRKC320-04	IRKJ320-04	400	320	100	1.28	8500	8900	0.063	2 8 9 29	87090
IRKD320-08	IRKC320-08	IRKJ320-08	800	320	100	1.28	8500	8900	0.063	2 8 9 29	87090
IRKD320-12	IRKC320-12	IRKJ320-12	1200	320	100	1.28	8500	8900	0.063	2 8 9 29	87090
IRKD320-16	IRKC320-16	IRKJ320-16	1600	320	100	1.28	8500	8900	0.063	2 8 9 29	87090
IRKD320-20	IRKC320-20	IRKJ320-20	2000	320	100	1.28	8500	8900	0.063	2 8 9 29	87090

NOTES:

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|--|---|--|--|
| <p>1 Available on tape-and-reel</p> <p>2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C</p> <p>3 For Irm: Tj = 150°C</p> <p>4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3.</p> <p>5 VFM measured at Tj=Tj max.</p> <p>6 Io at ambient temperature</p> <p>7 Rth is junction-to-ambient</p> <p>8 Value given for RthJC is per module</p> <p>9 Vfm measured at Tj=25°C</p> | <p>10 RMS isolation voltage=2700V - 50Hz</p> <p>11 RMS isolation voltage=4000V - 50Hz</p> <p>12 For Ifsm: 100% VRRM reapplied, Tj=Tj max.</p> <p>13 Additional packages available</p> <p>14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10</p> <p>15 For Irm: Tj=25°C</p> <p>16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC)</p> | <p>17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100</p> <p>18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC</p> <p>19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A.</p> <p>20 1N3288 series also available.</p> <p>21 VFM for JEDEC types is registered at max Tj.</p> | <p>22 Available with strengthening cone for high-g applications. To order, change part number from 301 to 305.3</p> <p>23 DC operation, double side cooled</p> <p>24 IF(AV) and Rth measured to heat sink</p> <p>25 Ifsm measured at 50% VRRM reapplied</p> <p>26 10 μs square pulse, Tj=Tj max</p> <p>27 RMS isolation voltage=3500V - 50Hz</p> <p>28 Available with spacers and longer screws</p> <p>29 RMS isolation voltage=3000V - 50Hz</p> |
|--|---|--|--|

Diodes

Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	@ T_C (°C)	$V_{FM@}$ I_{FM} (V)	I_{FSM} 50 Hz (A)	I_{FSM} 60 Hz (A)	$R_{\theta JC (DC)}$ K/W	Notes
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Power Module

Diode / Diode

Super MAGN-A-Pak

IRKD600-08	800	600	100	1.25	16200	17200	0.032	2 8 9 29
IRKD600-12	1200	600	100	1.25	16200	17200	0.032	2 8 9 29
IRKD600-16	1600	600	100	1.25	16200	17200	0.032	2 8 9 29
IRKD600-20	2000	600	100	1.25	16200	17200	0.032	2 8 9 29

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|--|--|---|--|
| 1 Available on tape-and-reel | 10 RMS isolation voltage=2700V - 50Hz | 17 Cathode to stud. To order anode to stud, append 'R' to part letters, e.g. 12FR100 | 22 Available with strengthening (high-g applications). To order, part number from 301 to 305.3 |
| 2 For Ifsm: 100% VRRM reapplied, Tj=Tj max.=150°C | 11 RMS isolation voltage=4000V - 50Hz | 18 Available with metric stud. To order, add 'M' to part number, e.g. 6F10M, SD600N08MC | 23 DC operation, double side cooling |
| 3 For Irm: Tj = 150°C | 12 For Ifsm: 100% VRRM reapplied, Tj=Tj max. | 19 Available with stud top case or flag terminal. To order, add 2 for stud top case or 4 for flag terminal to second digit of part number, e.g. 152L5A. | 24 IF(AV) and Rth measured to heat sink |
| 4 Available with 3mm and 5mm cropped leads. To specify, add suffix 'L3' for 3mm or 'L5' for 5mm, e.g. 1KAB10EL3. | 13 Additional packages available | 20 1N3288 series also available. | 25 Ifsm measured at 50% VRRM reapplied |
| 5 VFM measured at Tj=Tj max. | 14 Available leaded. To order, add 1 (or 2 for leaded and sleeved) to second digit of part number, e.g. 41HF10 or 42HF10 | 21 VFM for JEDEC types is registered at max Tj. | 26 10 µs square pulse, Tj=Tj max |
| 6 Io at ambient temperature | 15 For Irm: Tj=25°C | | 27 RMS isolation voltage=3500V |
| 7 Rth is junction-to-ambient | 16 Cathode to stud. To order anode to stud, change 'N' to 'R' in part number (i.e. 8AF4RPP, SD600R08PC) | | 28 Available with spacers and lock screws |
| 8 Value given for RthJC is per module | | | 29 RMS isolation voltage=3000V |
| 9 Vfm measured at Tj=25°C | | | |

Phase Control SCR

Part Number	V_{RRM} V_{DRM} (V)	$I_{T(RMS)}$ (A)	$I_{T(AV)}$ (A)	$@T_C$ (°C)	I_{TSM} 50 Hz (A)	60 Hz (A)	V_{GT} (V)	I_{GT} (mA)	V_{TM} (V)	$@I_{TM}$ (A)	dv/dt (V/μs)	R_{θ} (°C/W)	Notes	Fax-on-Demand
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Thyristors

Part Number	V_{RRM} V_{DRM} (V)	$I_{T(RMS)}$ (A)	$I_{T(AV)}$ (A)	$@T_C$ (°C)	I_{TSM} 50 Hz (A)	60 Hz (A)	V_{GT} (V)	I_{GT} (mA)	V_{TM} (V)	$@I_{TM}$ (A)	dv/dt (V/μs)	R_{θ} (°C/W)	Notes	Fax-on-Demand
16TTS08S	800	16	10	98	170	175	2	45	1.4	10	500	1.3	1	82115
16TTS12S	1200	16	10	98	170	175	2	45	1.4	10	500	1.3	1	82115
16TTS16S	1600	16	10	98	170	175	2	45	1.4	10	500	1.3	1	82115
25TTS08S	800	25	16	94	210	220	2	45	1.25	16	500	1.1	1	82117
25TTS12S	1200	25	16	94	210	220	2	45	1.25	16	500	1.1	1	82117
25TTS16S	1600	25	16	94	210	220	2	45	1.25	16	500	1.1	1	82117
D²Pak														
16TTS08	800	16	10	98	170	175	2	45	1.4	10	500	1.3		82115
16TTS12	1200	16	10	98	170	175	2	45	1.4	10	500	1.3		82115
16TTS16	1600	16	10	98	170	175	2	45	1.4	10	500	1.3		82115
25TTS08	800	25	16	94	210	220	2	45	1.25	16	500	1.1		82117
25TTS012	1200	25	16	94	210	220	2	45	1.25	16	500	1.1		82117
25TTS16	1600	25	16	94	210	220	2	45	1.25	16	500	1.1		82117
TO-220AC														
40TPS08	800	55	35	85	335	350	2.5	150	1.43	40	500	0.6		82107
40TPS12	1200	55	35	85	335	350	2.5	150	1.43	40	500	0.6		82107
TO-247AC (TO-3P)														

NOTES:

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|--|--|--|---|
| <p>1 Available on tape-and-reel. Refer to case outline.</p> <p>2 For I_{TSM}: 100% V_{RRM} reapplied, $T_j=T_j$ max.=125°C</p> <p>3 For I_{GT}, V_{GT}: $T_j = 25^\circ\text{C}$</p> <p>4 $V_{TM} @ \pi \times I_{T(AV)}$, $T_j=125^\circ\text{C}$</p> | <p>5 dv/dt exponential to 0.67 V_{DRM}. $T_j=25^\circ\text{C}$</p> <p>6 Available with metric stud. To order, add 'M' to part number, e.g.10RIA10M.</p> <p>7 dv/dt linear to 0.8 V_{DRM}; $T_j = 125^\circ\text{C}$</p> <p>8 dv/dt exponential to 100% V_{DRM}; $T_j = 125^\circ\text{C}$</p> | <p>9 V_{TM} measured at $T_j=T_j$ max</p> <p>10 Max $T_j = 150^\circ\text{C}$</p> <p>11 Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V</p> | <p>12 Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40</p> <p>13 Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40</p> <p>14 DC operation, double side cooled</p> |
|--|--|--|---|

Phase Control SCR

Part Number	V_{RRM} V_{DRM} (V)	$I_{T(RMS)}$ (A)	$I_{T(AV)}$ (A)	T_C (°C)	I_{TSM} 50 Hz (A)	I_{TSM} 60 Hz (A)	V_{GT} (V)	I_{GT} (mA)	V_{TM} (V)	I_{TM} (A)	dv/dt (V/μs)	R_{θ} (°C/W)	Notes	Fax-on-Demand
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Thyristors

TO-247AC (TO-3P)

40TPS16	1600	55	35	85	335	350	2.5	150	1.43	40	500	0.6		82107
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NOTES:

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|--|--|--|---|
| <p>1 Available on tape-and-reel. Refer to case outline.</p> <p>2 For I_{TSM}: 100% V_{RRM} reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$</p> <p>3 For I_{GT}, V_{GT}: $T_j = 25^\circ\text{C}$</p> <p>4 $V_{TM} @ \pi \times I_{T(AV)}$, $T_j = 125^\circ\text{C}$</p> | <p>5 dv/dt exponential to 0.67 V_{DRM}. $T_j = 25^\circ\text{C}$</p> <p>6 Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.</p> <p>7 dv/dt linear to 0.8 V_{DRM}; $T_j = 125^\circ\text{C}$</p> <p>8 dv/dt exponential to 100% V_{DRM}; $T_j = 125^\circ\text{C}$</p> | <p>9 V_{TM} measured at $T_j = T_j \text{ max}$</p> <p>10 Max $T_j = 150^\circ\text{C}$</p> <p>11 Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V</p> | <p>12 Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40</p> <p>13 Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40</p> <p>14 DC operation, double side cooled</p> |
|--|--|--|---|

Phase Control SCR

Part Number	V_{RRM} V_{DRM} (V)	$I_{T(RMS)}$ (A)	$I_{T(AV)}$ (A)	@ T_C (°C)	I_{TSM} 50 Hz (A)	60 Hz (A)	V_{GT} (V)	I_{GT} (mA)	V_{TM} (V)	@ I_{TM} (A)	dv/dt (V/μs)	$R_{\theta JC}$ (DC) (°C/W)	Notes	Fax-on-Demand
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Thyristors

TO-208AA (TO-48)

10RIA10	100	25	10	85	190	200	2	60	1.75		300	1.85	2 3 4 5 6	30060
10RIA20	200	25	10	85	190	200	2	60	1.75		300	1.85	2 3 4 5 6	30060
10RIA40	400	25	10	85	190	200	2	60	1.75		300	1.85	2 3 4 5 6	30060
10RIA60	600	25	10	85	190	200	2	60	1.75		300	1.85	2 3 4 5 6	30060
10RIA80	800	25	10	85	190	200	2	60	1.75		300	1.85	2 3 4 5 6	30060
10RIA100	1000	25	10	85	190	200	2	60	1.75		300	1.85	2 3 4 5 6	30060
10RIA120	1200	25	10	85	190	200	2	60	1.75		300	1.85	2 3 4 5 6	30060
2N681	25	25	16	65	145	150	2	40	2		250	1.5	2 3 4 5	30081
2N682	50	25	16	65	145	150	2	40	2		250	1.5	2 3 4 5	30081
2N683	100	25	16	65	145	150	2	40	2		250	1.5	2 3 4 5	30081
16RIA10	100	35	16	85	285	300	2	60	1.75		300	1.15	2 3 4 5 6	30060
2N684	150	25	16	65	145	150	2	40	2		250	1.5	2 3 4 5	30081
2N685	200	25	16	65	145	150	2	40	2		250	1.5	2 3 4 5	30081
16RIA20	200	35	16	85	285	300	2	60	1.75		300	1.15	2 3 4 5 6	30060
2N686	250	25	16	65	145	150	2	40	2		250	1.5	2 3 4 5	30081
2N687	300	25	16	65	145	150	2	40	2		250	1.5	2 3 4 5	30081

NOTES:

- Available on tape-and-reel. Refer to case outline.
- For I_{TSM} : 100% V_{RRM} reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$
- For I_{GT} , V_{GT} : $T_j = 25^\circ\text{C}$
- V_{TM} @ $\pi \times I_{T(AV)}$, $T_j = 125^\circ\text{C}$
- dv/dt exponential to 0.67 V_{DRM} . $T_j = 25^\circ\text{C}$
- Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.
- dv/dt linear to 0.8 V_{DRM} ; $T_j = 125^\circ\text{C}$
- dv/dt exponential to 100% V_{DRM} ; $T_j = 125^\circ\text{C}$
- V_{TM} measured at $T_j = T_j \text{ max}$
- Max $T_j = 150^\circ\text{C}$
- Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V
- Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40
- Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40
- DC operation, double side cooled

Phase Control SCR

Part Number	V_{RRM} V_{DRM} (V)	$I_{T(RMS)}$ (A)	$I_{T(AV)}$ (A)	@ T_C (°C)	I_{TSM} 50 Hz (A)	60 Hz (A)	V_{GT} (V)	I_{GT} (mA)	V_{TM} (V)	@ I_{TM} (A)	dv/dt (V/μs)	$R_{\theta JC}$ (DC) (°C/W)	Notes	Fax-on-Demand
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Thyristors

TO-208AA (TO-48)

2N688	400	25	16	65	145	150	2	40	2		250	1.5	2 3 4 5	30081
16RIA40	400	35	16	85	285	300	2	60	1.75		300	1.15	2 3 4 5 6	30060
2N689	500	25	16	65	145	150	2	40	2		250	1.5	2 3 4 5	30081
16RIA60	600	35	16	85	285	300	2	60	1.75		300	1.15	2 3 4 5 6	30060
2N690	600	25	16	65	145	150	2	40	2		250	1.5	2 3 4 5	30081
2N691	700	25	16	65	145	150	2	40	2		250	1.5	2 3 4 5	30081
16RIA80	800	35	16	85	285	300	2	60	1.75		300	1.15	2 3 4 5 6	30060
2N692	800	25	16	65	145	150	2	40	2		250	1.5	2 3 4 5	30081
16RIA100	1000	35	16	85	285	300	2	60	1.75		300	1.15	2 3 4 5 6	30060
16RIA120	1200	35	16	85	285	300	2	60	1.75		300	1.15	2 3 4 5 6	30060
16RIA140	1400	35	16	80	190	200	2	60	1.8		300	1.15	2 3 4 5 6	30060
16RIA160	1600	35	16	80	190	200	2	60	1.8		300	1.15	2 3 4 5 6	30060
22RIA10	100	35	22	85	335	355	2	60	1.7		300	0.86	2 3 4 5 6	30060
22RIA20	200	35	22	85	335	355	2	60	1.7		300	0.86	2 3 4 5 6	30060
22RIA40	400	35	22	85	335	355	2	60	1.7		300	0.86	2 3 4 5 6	30060
22RIA60	600	35	22	85	335	355	2	60	1.7		300	0.86	2 3 4 5 6	30060
2N5204	600	35	22	40	285	300	2	40	2.3		250	1.5	2 3 4 5	30081

NOTES:

- Available on tape-and-reel. Refer to case outline.
- For I_{TSM} : 100% V_{RRM} reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$
- For I_{GT} , V_{GT} : $T_j = 25^\circ\text{C}$
- V_{TM} @ $\pi \times I_{T(AV)}$, $T_j = 125^\circ\text{C}$
- dv/dt exponential to 0.67 V_{DRM} . $T_j = 25^\circ\text{C}$
- Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.
- dv/dt linear to 0.8 V_{DRM} ; $T_j = 125^\circ\text{C}$
- dv/dt exponential to 100% V_{DRM} ; $T_j = 125^\circ\text{C}$
- V_{TM} measured at $T_j = T_j \text{ max}$
- Max $T_j = 150^\circ\text{C}$
- Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V
- Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40
- Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40
- DC operation, double side cooled

Phase Control SCR

Part Number	V_{RRM} V_{DRM} (V)	$I_{T(RMS)}$ (A)	$I_{T(AV)}$ (A)	$@T_C$ (°C)	I_{TSM} 50 Hz (A)	60 Hz (A)	V_{GT} (V)	I_{GT} (mA)	V_{TM} (V)	$@I_{TM}$ (A)	dv/dt (V/μs)	$R_{\theta JC}$ (DC) (°C/W)	Notes	Fax-on-Demand
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Thyristors

TO-208AA (TO-48)

2N5205	800	35	22	40	285	300	2	40	2.3		250	1.5	2 3 4 5	30081
22RIA80	800	35	22	85	335	355	2	60	1.7		300	0.86	2 3 4 5 6	30060
2N5206	1000	35	22	40	285	300	2	40	2.3		250	1.5	2 3 4 5	30081
22RIA100	1000	35	22	85	335	355	2	60	1.7		300	0.86	2 3 4 5 6	30060
2N5207	1200	35	22	40	285	300	2	40	2.3		250	1.5	2 3 4 5	30081
22RIA120	1200	35	22	85	335	355	2	60	1.7		300	0.86	2 3 4 5 6	30060
22RIA140	1400	35	22	80	285	300	2	60	1.8		300	0.86	2 3 4 5 6	30060
22RIA160	1600	35	22	80	285	300	2	60	1.8		300	0.86	2 3 4 5 6	30060
25RIA10	100	40	25	85	350	370	2	60	1.7		300	0.75	2 3 4 5 6	30060
25RIA20	200	40	25	85	350	370	2	60	1.7		300	0.75	2 3 4 5 6	30060
25RIA40	400	40	25	85	350	370	2	60	1.7		300	0.75	2 3 4 5 6	30060
25RIA60	600	40	25	85	350	370	2	60	1.7		300	0.75	2 3 4 5 6	30060
25RIA80	800	40	25	85	350	370	2	60	1.7		300	0.75	2 3 4 5 6	30060
25RIA100	1000	40	25	85	350	370	2	60	1.7		300	0.75	2 3 4 5 6	30060
25RIA120	1200	40	25	85	350	370	2	60	1.7		300	0.75	2 3 4 5 6	30060
25RIA140	1400	40	25	80	335	350	2	60	1.8		300	0.75	2 3 4 5 6	30060
25RIA160	1600	40	25	80	335	350	2	60	1.8		300	0.75	2 3 4 5 6	30060

NOTES:

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| <p>1 Available on tape-and-reel. Refer to case outline.</p> <p>2 For I_{TSM}: 100% V_{RRM} reapplied, $T_j=T_j \text{ max.}=125^\circ\text{C}$</p> <p>3 For I_{GT}, V_{GT}: $T_j = 25^\circ\text{C}$</p> <p>4 $V_{TM} @ \pi \times I_{T(AV)}$, $T_j=125^\circ\text{C}$</p> | <p>5 dv/dt exponential to 0.67 V_{DRM}. $T_j=25^\circ\text{C}$</p> <p>6 Available with metric stud. To order, add 'M' to part number, e.g.10RIA10M.</p> <p>7 dv/ dt linear to 0.8 V_{DRM}; $T_j = 125^\circ\text{C}$</p> <p>8 dv/dt exponential to 100% V_{DRM}; $T_j = 125^\circ\text{C}$</p> | <p>9 V_{TM} measured at $T_j=T_j \text{ max}$</p> <p>10 Max $T_j = 150^\circ\text{C}$</p> <p>11 Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V</p> | <p>12 Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40</p> <p>13 Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40</p> <p>14 DC operation, double side cooled</p> |
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Phase Control SCR

Part Number	V_{RRM} V_{DRM} (V)	$I_{T(RMS)}$ (A)	$I_{T(AV)}$ (A)	$@T_C$ (°C)	I_{TSM} 50 Hz (A)	60 Hz (A)	V_{GT} (V)	I_{GT} (mA)	V_{TM} (V)	$@I_{TM}$ (A)	dv/dt (V/μs)	$R_{\theta JC}$ (DC) (°C/W)	Notes	Fax-on-Demand
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Thyristors

														TO-208AC (TO-65)	
50RIA10	100	80	50	94	1200	1255	2.5	100	1.6		500	0.35	2 3 4 6 15	30062	
50RIA20	200	80	50	94	1200	1255	2.5	100	1.6		500	0.35	2 3 4 6 15	30062	
50RIA40	400	80	50	94	1200	1255	2.5	100	1.6		500	0.35	2 3 4 6 15	30062	
50RIA60	600	80	50	94	1200	1255	2.5	100	1.6		500	0.35	2 3 4 6 15	30062	
50RIA80	800	80	50	94	1200	1255	2.5	100	1.6		500	0.35	2 3 4 6 15	30062	
50RIA100	1000	80	50	94	1200	1255	2.5	100	1.6		500	0.35	2 3 4 6 15	30062	
50RIA120	1200	80	50	94	1200	1255	2.5	100	1.6		500	0.35	2 3 4 6 15	30062	
50RIA140	1400	80	50	94	900	942	2.5	100	1.6		500	0.35	2 3 4 6 15	30062	
50RIA160	1600	80	50	94	900	942	2.5	100	1.6		500	0.35	2 3 4 6 15	30062	
														TO-208AD (TO-83)	
2N1800	600	110	70	65	955	1000	2.5	70	1.85	220	200	0.4	2 3 4 7 8 9	30082	
2N1801	700	110	70	65	955	1000	2.5	70	1.85	220	200	0.4	2 3 4 7 8 9	30082	
2N1802	800	110	70	65	955	1000	2.5	70	1.85	220	200	0.4	2 3 4 7 8 9	30082	
2N1803	900	110	70	65	955	1000	2.5	110	2	220	200	0.4	2 3 4 7 8 9	30082	
2N1804	1000	110	70	65	955	1000	2.5	110	2	220	200	0.4	2 3 4 7 8 9	30082	

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| <p>1 Available on tape-and-reel. Refer to case outline.</p> <p>2 For I_{TSM}: 100% V_{RRM} reapplied, $T_j=T_j \text{ max.}=125^\circ\text{C}$</p> <p>3 For I_{GT}, V_{GT}: $T_j = 25^\circ\text{C}$</p> <p>4 $V_{TM} @ \pi \times I_{T(AV)}$, $T_j=125^\circ\text{C}$</p> | <p>5 dv/dt exponential to 0.67 V_{DRM}. $T_j=25^\circ\text{C}$</p> <p>6 Available with metric stud. To order, add 'M' to part number, e.g.10RIA10M.</p> <p>7 dv/ dt linear to 0.8 V_{DRM}; $T_j = 125^\circ\text{C}$</p> <p>8 dv/dt exponential to 100% V_{DRM}; $T_j = 125^\circ\text{C}$</p> | <p>9 V_{TM} measured at $T_j=T_j \text{ max}$</p> <p>10 Max $T_j = 150^\circ\text{C}$</p> <p>11 Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V</p> | <p>12 Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40</p> <p>13 Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40</p> <p>14 DC operation, double side cooled</p> |
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Phase Control SCR

Part Number	V_{RRM} V_{DRM} (V)	$I_{T(RMS)}$ (A)	$I_{T(AV)}$ (A)	$@T_C$ (°C)	I_{TSM} 50 Hz (A)	60 Hz (A)	V_{GT} (V)	I_{GT} (mA)	V_{TM} (V)	$@I_{TM}$ (A)	dv/dt (V/μs)	$R_{\theta JC}$ (DC) (°C/W)	Notes	Fax-on-Demand
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Thyristors

															TO-209AC (TO-94)
80RIA40	400	125	80	85	1600	1675	2.5	120	1.4	250	500	0.3	2 3 4 6 7 9 12 13	30085	
80RIA80	800	125	80	85	1600	1675	2.5	120	1.4	250	500	0.3	2 3 4 6 7 9 12 13	30085	
80RIA120	1200	125	80	85	1600	1675	2.5	120	1.4	250	500	0.3	2 3 4 6 7 9 12 13	30085	
															TO-209AC (TO-94)
110RKI40	400	172	110	90	1750	1830	2	100	1.5	350	500	0.27	2 3 4 6 7 9 12 13	25152	
110RKI80	800	172	110	90	1750	1830	2	100	1.5	350	500	0.27	2 3 4 6 7 9 12 13	25152	
110RKI120	1200	172	110	90	1750	1830	2	100	1.5	350	500	0.27	2 3 4 6 7 9 12 13	25152	
															TO-209AC (TO-94)
ST110S04P0V	400	175	110	90	2270	2380	3	150	1.52	350	500	0.195	2 3 7 10	25167	
ST110S08P0V	800	175	110	90	2270	2380	3	150	1.52	350	500	0.195	2 3 7 10	25167	
ST110S12P0V	1200	175	110	90	2270	2380	3	150	1.52	350	500	0.195	2 3 7 10	25167	
															TO-209AC (TO-94)
ST110S14P0	1400	175	110	90	2270	2380	3	150	1.52	350	500	0.195	2 3 7 10	25167	
ST110S16P0	1600	175	110	90	2270	2380	3	150	1.52	350	500	0.195	2 3 7 10	25167	
															TO-209AB (TO-93)
180RKI40	400	285	180	80	3500	3660	2.5	150	1.35	570	500	0.15	2 3 4 7 9 12 13	25153	

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| <p>1 Available on tape-and-reel. Refer to case outline.</p> <p>2 For I_{TSM}: 100% V_{RRM} reapplied, $T_j=T_j \text{ max.}=125^\circ\text{C}$</p> <p>3 For I_{GT}, V_{GT}: $T_j = 25^\circ\text{C}$</p> <p>4 $V_{TM} @ \pi \times I_{T(AV)}$, $T_j=125^\circ\text{C}$</p> | <p>5 dv/dt exponential to 0.67 V_{DRM}. $T_j=25^\circ\text{C}$</p> <p>6 Available with metric stud. To order, add 'M' to part number, e.g.10RIA10M.</p> <p>7 dv/dt linear to 0.8 V_{DRM}; $T_j = 125^\circ\text{C}$</p> <p>8 dv/dt exponential to 100% V_{DRM}; $T_j = 125^\circ\text{C}$</p> | <p>9 V_{TM} measured at $T_j=T_j \text{ max}$</p> <p>10 Max $T_j = 150^\circ\text{C}$</p> <p>11 Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V</p> | <p>12 Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40</p> <p>13 Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40</p> <p>14 DC operation, double side cooled</p> |
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Phase Control SCR

Part Number	V_{RRM} V_{DRM} (V)	$I_{T(RMS)}$ (A)	$I_{T(AV)}$ (A)	$@T_C$ (°C)	I_{TSM} 50 Hz (A)	60 Hz (A)	V_{GT} (V)	I_{GT} (mA)	V_{TM} (V)	$@I_{TM}$ (A)	dv/dt (V/μs)	$R_{\theta JC}$ (DC) (°C/W)	Notes	Fax-on-Demand
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Thyristors

180RKI80	800	285	180	80	3500	3660	2.5	150	1.35	570	500	0.15	2 3 4 7 9 12 13	25153
180RKI100	1000	285	180	80	3500	3660	2.5	150	1.35	570	500	0.15	2 3 4 7 9 12 13	25153
TO-209AB (TO-93)														
ST180S04P0V	400	314	200	85	4200	4400	3	150	1.75	570	500	0.105	2 3 4 6 7 9 11	25165
ST180S08P0V	800	314	200	85	4200	4400	3	150	1.75	570	500	0.105	2 3 4 6 7 9 11 16	25165
ST180S12P0V	1200	314	200	85	4200	4400	3	150	1.75	570	500	0.105	2 3 4 6 7 9 11 16	25165
TO-209AB (TO-93)														
ST180S16P0	1600	314	200	85	4200	4400	3	150	1.75	570	500	0.105	2 3 4 6 7 9 11 16	25165
ST180S18P0	1800	314	200	85	4200	4400	3	150	1.75	570	500	0.105	2 3 4 6 7 9 11 16	25165
ST180S20P0	2000	314	200	85	4200	4400	3	150	1.75	570	500	0.105	2 3 4 6 7 9 11 16	25165
TO-209AB (TO-93)														
ST230S04P0V	400	361	230	85	4800	5000	3	150	1.55	720	500	0.1	2 3 4 6 7 9 11 16	25163
ST230S08P0V	800	361	230	85	4800	5000	3	150	1.55	720	500	0.1	2 3 4 6 7 9 11 16	25163
ST230S12P0V	1200	361	230	85	4800	5000	3	150	1.55	720	500	0.1	2 3 4 6 7 9 11 16	25163
TO-209AB (TO-93)														
ST230S14P0	1400	361	230	85	4800	5000	3	150	1.55	720	500	0.1	2 3 4 6 7 9 11 16	25163
ST230S16P0	1600	361	230	85	4800	5000	3	150	1.55	720	500	0.1	2 3 4 6 7 9 11 16	25163

NOTES:

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| <p>1 Available on tape-and-reel. Refer to case outline.</p> <p>2 For I_{TSM}: 100% V_{RRM} reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$</p> <p>3 For I_{GT}, V_{GT}: $T_j = 25^\circ\text{C}$</p> <p>4 $V_{TM} @ \pi \times I_{T(AV)}$, $T_j = 125^\circ\text{C}$</p> | <p>5 dv/dt exponential to 0.67 V_{DRM}. $T_j = 25^\circ\text{C}$</p> <p>6 Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.</p> <p>7 dv/dt linear to 0.8 V_{DRM}; $T_j = 125^\circ\text{C}$</p> <p>8 dv/dt exponential to 100% V_{DRM}; $T_j = 125^\circ\text{C}$</p> | <p>9 V_{TM} measured at $T_j = T_j \text{ max}$</p> <p>10 Max $T_j = 150^\circ\text{C}$</p> <p>11 Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V</p> | <p>12 Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40</p> <p>13 Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40</p> <p>14 DC operation, double side cooled</p> |
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Phase Control SCR

Part Number	V_{RRM} V_{DRM} (V)	$I_{T(RMS)}$ (A)	$I_{T(AV)}$ (A)	$@T_C$ (°C)	I_{TSM} 50 Hz (A)	60 Hz (A)	V_{GT} (V)	I_{GT} (mA)	V_{TM} (V)	$@I_{TM}$ (A)	dv/dt (V/μs)	$R_{\theta JC}$ (DC) (°C/W)	Notes	Fax-on-Demand
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Thyristors

														TO-209AB (TO-93)
ST280S04P0V	400	440	280	85	6600	6900	3	150	1.28	880	500	0.105	2 3 4 6 7 9 11 16	25161
ST280S06P0V	600	440	280	85	6600	6900	3	150	1.28	880	500	0.105	2 3 4 6 7 9 11 16	25161
														TO-209AE (TO-118)
ST300S04P0	400	470	300	75	6730	7040	3	200	1.66	940	500	0.1	2 3 4 6 7 9 11	25158
ST300S08P0	800	470	300	75	6730	7040	3	200	1.66	940	500	0.1	2 3 4 6 7 9 11	25158
ST300S12P0	1200	470	300	75	6730	7040	3	200	1.66	940	500	0.1	2 3 4 6 7 9 11	25158
ST300S16P0	1600	470	300	75	6730	7040	3	200	1.66	940	500	0.1	2 3 4 6 7 9 11	25158
ST300S18P0	1800	470	300	75	6730	7040	3	200	1.66	940	500	0.1	2 3 4 6 7 9 11	25158
ST300S20P0	2000	470	300	75	6730	7040	3	200	1.66	940	500	0.1	2 3 4 6 7 9 11	25158
ST330S04P0	400	520	330	75	7570	7920	3	200	1.51	1040	500	0.1	2 3 4 6 7 9 11	25156
ST330S08P0	800	520	330	75	7570	7920	3	200	1.51	1040	500	0.1	2 3 4 6 7 9 11	25156
ST330S12P0	1200	520	330	75	7570	7920	3	200	1.51	1040	500	0.1	2 3 4 6 7 9 11	25156
ST330S14P0	1400	520	330	75	7570	7920	3	200	1.51	1040	500	0.1	2 3 4 6 7 9 11	25156
ST330S16P0	1600	520	330	75	7570	7920	3	200	1.51	1040	500	0.1	2 3 4 6 7 9 11	25156

NOTES:

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| <p>1 Available on tape-and-reel. Refer to case outline.</p> <p>2 For I_{TSM}: 100% V_{RRM} reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$</p> <p>3 For I_{GT}, V_{GT}: $T_j = 25^\circ\text{C}$</p> <p>4 V_{TM} @ $\pi \times I_{T(AV)}$, $T_j = 125^\circ\text{C}$</p> | <p>5 dv/dt exponential to 0.67 V_{DRM}. $T_j = 25^\circ\text{C}$</p> <p>6 Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.</p> <p>7 dv/dt linear to 0.8 V_{DRM}; $T_j = 125^\circ\text{C}$</p> <p>8 dv/dt exponential to 100% V_{DRM}; $T_j = 125^\circ\text{C}$</p> | <p>9 V_{TM} measured at $T_j = T_j \text{ max}$</p> <p>10 Max $T_j = 150^\circ\text{C}$</p> <p>11 Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V</p> | <p>12 Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40</p> <p>13 Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40</p> <p>14 DC operation, double side cooled</p> |
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Phase Control SCR

Part Number	V_{RRM} V_{DRM} (V)	$I_{T(RMS)}$ (A)	$I_{T(AV)}$ (A)	$@T_C$ (°C)	I_{TSM} 50 Hz (A)	60 Hz (A)	V_{GT} (V)	I_{GT} (mA)	V_{TM} (V)	$@I_{TM}$ (A)	dv/dt (V/μs)	$R_{\theta J-HS}$ (°C/W)	Notes	Fax-on-Demand
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Thyristors

														TO-200AA (A-Puk)
ST180C04C0	400	660	350	55	4200	4400	3	150	1.96	750	500	0.08	2 3 7 9	25164
ST180C08C0	800	660	350	55	4200	4400	3	150	1.96	750	500	0.08	2 3 7 9	25164
ST180C12C0	1200	660	350	55	4200	4400	3	150	1.96	750	500	0.08	2 3 7 9	25164
ST180C16C0	1600	660	350	55	4200	4400	3	150	1.96	750	500	0.08	2 3 7 9	25164
ST180C18C0	1800	660	350	55	4200	4400	3	150	1.96	750	500	0.08	2 3 7 9	25164
ST180C20C0	2000	660	350	55	4200	4400	3	150	1.96	750	500	0.08	2 3 7 9	25164
ST230C04C0	400	780	410	55	4800	5000	3	150	1.69	880	500	0.08	2 3 7 9	25162
ST230C08C0	800	780	410	55	4800	5000	3	150	1.69	880	500	0.08	2 3 7 9	25162
ST230C12C0	1200	780	410	55	4800	5000	3	150	1.69	880	500	0.08	2 3 7 9	25162
ST230C14C0	1400	780	410	55	4800	5000	3	150	1.69	880	500	0.08	2 3 7 9	25162
ST230C16C0	1600	780	410	55	4800	5000	3	150	1.69	880	500	0.08	2 3 7 9	25162
ST280C04C0	400	960	500	55	6600	6900	3	150	1.36	1050	500	0.08	2 3 7 9	25159
ST280CH04C0	400	1130	500	80	6000	6300	3	150	1.35	1000	500	0.08	2 3 7 9 10	25160
ST280C06C0	600	960	500	55	6600	6900	3	150	1.36	1050	500	0.08	2 3 7 9	25159
ST280CH06C0	600	1130	500	80	6000	6300	3	150	1.35	1000	500	0.08	2 3 7 9 10	25160

TO-200AB (E-Puk)

NOTES:

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| <p>1 Available on tape-and-reel. Refer to case outline.</p> <p>2 For I_{TSM}: 100% V_{RRM} reapplied, $T_j=T_j \text{ max.}=125^\circ\text{C}$</p> <p>3 For I_{GT}, V_{GT}: $T_j = 25^\circ\text{C}$</p> <p>4 $V_{TM} @ \pi \times I_{T(AV)}$, $T_j=125^\circ\text{C}$</p> | <p>5 dv/dt exponential to 0.67 V_{DRM}. $T_j=25^\circ\text{C}$</p> <p>6 Available with metric stud. To order, add 'M' to part number, e.g.10RIA10M.</p> <p>7 dv/ dt linear to 0.8 V_{DRM}; $T_j = 125^\circ\text{C}$</p> <p>8 dv/dt exponential to 100% V_{DRM}; $T_j = 125^\circ\text{C}$</p> | <p>9 V_{TM} measured at $T_j=T_j \text{ max}$</p> <p>10 Max $T_j = 150^\circ\text{C}$</p> <p>11 Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V</p> | <p>12 Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40</p> <p>13 Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40</p> <p>14 DC operation, double side cooled</p> |
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Phase Control SCR

Part Number	V_{RRM} V_{DRM} (V)	$I_{T(RMS)}$ (A)	$I_{T(AV)}$ (A)	$@T_{(C)}$ (°C)	I_{TSM} 50 Hz (A)	60 Hz (A)	V_{GT} (V)	I_{GT} (mA)	V_{TM} (V)	$@I_{TM}$ (A)	dv/dt (V/μs)	$R_{\Theta J-HS}$ (°C/W)	Notes	Fax-on-Demand
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Thyristors

TO-200AB (E-Puk)

ST300C04C0	400	1290	650	55	6730	7040	3	200	2.18	1630	500	0.04	2 3 7 9	25157
ST300C08C0	800	1290	650	55	6730	7040	3	200	2.18	1630	500	0.04	2 3 7 9	25157
ST300C12C0	1200	1290	650	55	6730	7040	3	200	2.18	1630	500	0.04	2 3 7 9	25157
ST300C16C0	1600	1290	650	55	6730	7040	3	200	2.18	1630	500	0.04	2 3 7 9	25157
ST300C18C0	1800	1290	650	55	6730	7040	3	200	2.18	1630	500	0.04	2 3 7 9	25157
ST300C20C0	2000	1290	650	55	6730	7040	3	200	2.18	1630	500	0.04	2 3 7 9	25157
ST330C04C0	400	1420	720	55	7570	7920	3	200	1.96	1800	500	0.04	2 3 7 9	25155
ST330C08C0	800	1420	720	55	7570	7920	3	200	1.96	1800	500	0.04	2 3 7 9	25155
ST330C12C0	1200	1420	720	55	7570	7920	3	200	1.96	1800	500	0.04	2 3 7 9	25155
ST330C14C0	1400	1420	720	55	7570	7920	3	200	1.96	1800	500	0.04	2 3 7 9	25155
ST330C16C0	1600	1420	720	55	7570	7920	3	200	1.96	1800	500	0.04	2 3 7 9	25155
ST380C04C0	400	1900	960	55	12600	13200	3	200	1.6	3000	500	0.04	2 3 7 9	25168
ST380CH04C0	400	2220	960	80	10500	11000	3	200	1.58	2900	500	0.04	2 3 7 9 10	25169
ST380CH06C0	600	2220	960	80	10500	11000	3	200	1.58	2900	500	0.04	2 3 7 9 10	25169
ST380C06C0	600	1900	960	55	12600	13200	3	200	1.6	3000	500	0.04	2 3 7 9	25168

TO-200AC (B-Puk)

ST300C04L0	400	1115	560	55	6730	7040	3	200	2.18	1635	500	0.05	2 3 7 9	25157
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NOTES:

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| <p>1 Available on tape-and-reel. Refer to case outline.</p> <p>2 For I_{TSM}: 100% V_{RRM} reapplied, $T_j=T_j \text{ max.}=125^\circ\text{C}$</p> <p>3 For I_{GT}, V_{GT}: $T_j = 25^\circ\text{C}$</p> <p>4 $V_{TM} @ \pi \times I_{T(AV)}$, $T_j=125^\circ\text{C}$</p> | <p>5 dv/dt exponential to 0.67 V_{DRM}. $T_j=25^\circ\text{C}$</p> <p>6 Available with metric stud. To order, add 'M' to part number, e.g.10RIA10M.</p> <p>7 dv/dt linear to 0.8 V_{DRM}; $T_j = 125^\circ\text{C}$</p> <p>8 dv/dt exponential to 100% V_{DRM}; $T_j = 125^\circ\text{C}$</p> | <p>9 V_{TM} measured at $T_j=T_j \text{ max}$</p> <p>10 Max $T_j = 150^\circ\text{C}$</p> <p>11 Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V</p> | <p>12 Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40</p> <p>13 Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40</p> <p>14 DC operation, double side cooled</p> |
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Phase Control SCR

Part Number	V_{RRM} V_{DRM} (V)	$I_{T(RMS)}$ (A)	$I_{T(AV)}$ (A)	$@T_C$ (°C)	I_{TSM} 50 Hz (A)	60 Hz (A)	V_{GT} (V)	I_{GT} (mA)	V_{TM} (V)	$@I_{TM}$ (A)	dv/dt (V/μs)	$R_{\Theta J-HS}$ (°C/W)	Notes	Fax-on-Demand
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Thyristors

TO-200AC (B-Puk)

ST300C08L0	800	1115	560	55	6730	7040	3	200	2.18	1635	500	0.05	2 3 7 9	25157
ST300C12L0	1200	1115	560	55	6730	7040	3	200	2.18	1635	500	0.05	2 3 7 9	25157
ST300C16L0	1600	1115	560	55	6730	7040	3	200	2.18	1635	500	0.05	2 3 7 9	25157
ST300C18L0	1800	1115	560	55	6730	7040	3	200	2.18	1635	500	0.05	2 3 7 9	25157
ST300C20L0	2000	1115	560	55	6730	7040	3	200	2.18	1635	500	0.05	2 3 7 9	25157
ST330C04L0	400	1230	650	55	7570	7925	3	200	1.9	1730	500	0.05	2 3 7 9	25154
ST330C08L0	800	1230	650	55	7570	7925	3	200	1.9	1730	500	0.05	2 3 7 9	25154
ST330C12L0	1200	1230	650	55	7570	7925	3	200	1.9	1730	500	0.05	2 3 7 9	25154
ST330C14L0	1400	1230	650	55	7570	7925	3	200	1.9	1730	500	0.05	2 3 7 9	25154
ST330C16L0	1600	1230	650	55	7570	7925	3	200	1.9	1730	500	0.05	2 3 7 9	25154
ST700C12L0	1200	1857	910	55	13200	13800	3	200	1.8	2000	500	0.031	2 3 7 9	25190
ST700C16L0	1600	1857	910	55	13200	13800	3	200	1.8	2000	500	0.031	2 3 7 9	25190
ST700C18L0	1800	1857	910	55	13200	13800	3	200	1.8	2000	500	0.031	2 3 7 9	25190
ST700C20L0	2000	1857	910	55	13200	13800	3	200	1.8	2000	500	0.031	2 3 7 9	25190
ST700C22L0	2200	1857	910	55	13200	13800	3	200	1.8	2000	500	0.031	2 3 7 9	25190
ST730C08L0	800	2000	990	55	15000	15700	3	200	1.62	2000	500	0.031	2 3 7 9	25191
ST730C12L0	1200	2000	990	55	15000	15700	3	200	1.62	2000	500	0.031	2 3 7 9	25191

NOTES:

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| <p>1 Available on tape-and-reel. Refer to case outline.</p> <p>2 For I_{TSM}: 100% V_{RRM} reapplied, $T_j=T_j \text{ max.}=125^\circ\text{C}$</p> <p>3 For I_{GT}, V_{GT}: $T_j = 25^\circ\text{C}$</p> <p>4 $V_{TM} @ \pi \times I_{T(AV)}$, $T_j=125^\circ\text{C}$</p> | <p>5 dv/dt exponential to 0.67 V_{DRM}. $T_j=25^\circ\text{C}$</p> <p>6 Available with metric stud. To order, add 'M' to part number, e.g.10RIA10M.</p> <p>7 dv/dt linear to 0.8 V_{DRM}; $T_j = 125^\circ\text{C}$</p> <p>8 dv/dt exponential to 100% V_{DRM}; $T_j = 125^\circ\text{C}$</p> | <p>9 V_{TM} measured at $T_j=T_j \text{ max}$</p> <p>10 Max $T_j = 150^\circ\text{C}$</p> <p>11 Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V</p> | <p>12 Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40</p> <p>13 Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40</p> <p>14 DC operation, double side cooled</p> |
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Phase Control SCR

Part Number	V_{RRM} V_{DRM} (V)	$I_{T(RMS)}$ (A)	$I_{T(AV)}$ (A)	@ T_C (°C)	I_{TSM} 50 Hz (A)	60 Hz (A)	V_{GT} (V)	I_{GT} (mA)	V_{TM} (V)	@ I_{TM} (A)	dv/dt (V/μs)	$R_{\Theta J-HS}$ (°C/W)	Notes	Fax-on-Demand
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Thyristors

TO-200AC (B-Puk)

ST730C14L0	1400	2000	990	55	15000	15700	3	200	1.62	2000	500	0.031	2 3 7 9	25191
ST730C16L0	1600	2000	990	55	15000	15700	3	200	1.62	2000	500	0.031	2 3 7 9	25191
ST730C18L0	1800	2000	990	55	15000	15700	3	200	1.62	2000	500	0.031	2 3 7 9	25191
ST780C04L0	400	2700	1350	55	20550	21500	3	200	1.31	3600	500	0.031	2 3 7 9	25192
ST780C06L0	600	2700	1350	55	20550	21500	3	200	1.31	3600	500	0.031	2 3 7 9	25192

A-24 (K-Puk)

ST1000C12K0	1200	2800	1470	55	17800	18100	3	200	1.8	3000	500	0.021	2 3 7 9 11	
ST1000C14K0	1400	2800	1470	55	17800	18100	3	200	1.8	3000	500	0.021	2 3 7 9 11	
ST1000C16K0	1600	2800	1470	55	17800	18100	3	200	1.8	3000	500	0.021	2 3 7 9 11	
ST1000C18K0	1800	2800	1470	55	17800	18100	3	200	1.8	3000	500	0.021	2 3 7 9 11	
ST1000C20K0	2000	2800	1470	55	17800	18100	3	200	1.8	3000	500	0.021	2 3 7 9 11	
ST1000C22K0	2200	2800	1470	55	17800	18100	3	200	1.8	3000	500	0.021	2 3 7 9 11	
ST1000C24K0	2400	2800	1470	55	17800	18100	3	200	1.8	3000	500	0.021	2 3 7 9 11	
ST1000C26K0	2600	2800	1470	55	17800	18100	3	200	1.8	3000	500	0.021	2 3 7 9 11	
ST1200C12K0	1200	3080	1650	55	25700	26900	3	200	1.73	4000	500	0.021	2 3 7 9 11	25196
ST1200C14K0	1400	3080	1650	55	25700	26900	3	200	1.73	4000	500	0.021	2 3 7 9 11	25196
ST1200C16K0	1600	3080	1650	55	25700	26900	3	200	1.73	4000	500	0.021	2 3 7 9 11	25196

NOTES:

- Available on tape-and-reel. Refer to case outline.
- For I_{TSM} : 100% V_{RRM} reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$
- For I_{GT} , V_{GT} : $T_j = 25^\circ\text{C}$
- $V_{TM} @ \pi \times I_{T(AV)}$, $T_j = 125^\circ\text{C}$
- dv/dt exponential to 0.67 V_{DRM} . $T_j = 25^\circ\text{C}$
- Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.
- dv/dt linear to 0.8 V_{DRM} ; $T_j = 125^\circ\text{C}$
- dv/dt exponential to 100% V_{DRM} ; $T_j = 125^\circ\text{C}$
- V_{TM} measured at $T_j = T_j \text{ max}$
- Max $T_j = 150^\circ\text{C}$
- Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V
- Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40
- Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40
- DC operation, double side cooled

Phase Control SCR

Part Number	V_{RRM} V_{DRM} (V)	$I_{T(RMS)}$ (A)	$I_{T(AV)}$ (A)	$@T_C$ (°C)	I_{TSM} 50 Hz (A)	60 Hz (A)	V_{GT} (V)	I_{GT} (mA)	V_{TM} (V)	$@I_{TM}$ (A)	dv/dt (V/μs)	$R_{\theta JC}$ (DC) (°C/W)	Notes	Fax-on-Demand
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Thyristors

A-24 (K-Puk)

ST1200C18K0	1800	3080	1650	55	25700	26900	3	200	1.73	4000	500	0.021	2 3 7 9 11	25196
ST1200C20K0	2000	3080	1650	55	25700	26900	3	200	1.73	4000	500	0.021	2 3 7 9 11	25196
ST1230C08K0	800	3200	1745	55	28000	29500	3	200	1.62	4000	500	0.021	2 3 7 9 11	25194
ST1230C12K0	1200	3200	1745	55	28000	29500	3	200	1.62	4000	500	0.021	2 3 7 9 11	25194
ST1230C14K0	1400	3200	1745	55	28000	29500	3	200	1.62	4000	500	0.021	2 3 7 9 11	25194
ST1230C16K0	1600	3200	1745	55	28000	29500	3	200	1.62	4000	500	0.021	2 3 7 9 11	25194
ST1280C04K0	400	4150	2310	55	35700	37400	3	200	1.44	8000	500	0.021	2 3 7 9 11	25195
ST1280C06K0	600	4150	2310	55	35700	37400	3	200	1.44	8000	500	0.021	2 3 7 9 11	25195

A-36 (R-Puk)

ST1900C45R0	4500	3500	1625	80	22000	23500	4	400	2.1	2900	500	0.012	2 3 7 11	
ST1900C46R0	4600	3500	1625	80	22000	23500	4	400	2.1	2900	500	0.012	2 3 7 11	
ST1900C48R0	4800	3500	1625	80	22000	23500	4	400	2.1	2900	500	0.012	2 3 7 11	
ST1900C50R0	5000	3500	1625	80	22000	23500	4	400	2.1	2900	500	0.012	2 3 7 11	
ST1900C52R0	5200	3500	1625	80	22000	23500	4	400	2.1	2900	500	0.012	2 3 7 11	
ST2100C35R0	3500	3850	1770	80	29000	30350	4	400	1.88	2900	500	0.012	2 3 7 11	
ST2100C36R0	3600	3850	1770	80	29000	30350	4	400	1.88	2900	500	0.012	2 3 7 11	
ST2100C38R0	3800	3850	1770	80	29000	30350	4	400	1.88	2900	500	0.012	2 3 7 11	

NOTES:

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| <p>1 Available on tape-and-reel. Refer to case outline.</p> <p>2 For I_{TSM}: 100% V_{RRM} reapplied, $T_j=T_j \text{ max.}=125^\circ\text{C}$</p> <p>3 For I_{GT}, V_{GT}: $T_j = 25^\circ\text{C}$</p> <p>4 $V_{TM} @ \pi \times I_{T(AV)}$, $T_j=125^\circ\text{C}$</p> | <p>5 dv/dt exponential to 0.67 V_{DRM}. $T_j=25^\circ\text{C}$</p> <p>6 Available with metric stud. To order, add 'M' to part number, e.g.10RIA10M.</p> <p>7 dv/dt linear to 0.8 V_{DRM}; $T_j = 125^\circ\text{C}$</p> <p>8 dv/dt exponential to 100% V_{DRM}; $T_j = 125^\circ\text{C}$</p> | <p>9 V_{TM} measured at $T_j=T_j \text{ max}$</p> <p>10 Max $T_j = 150^\circ\text{C}$</p> <p>11 Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V</p> | <p>12 Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40</p> <p>13 Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40</p> <p>14 DC operation, double side cooled</p> |
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Phase Control SCR

Part Number	V_{RRM} V_{DRM} (V)	$I_{T(RMS)}$ (A)	$I_{T(AV)}$ (A)	$@T_C$ (°C)	I_{TSM} 50 Hz (A)	60 Hz (A)	V_{GT} (V)	I_{GT} (mA)	V_{TM} (V)	$@I_{TM}$ (A)	dv/dt (V/μs)	$R_{\theta JC}$ (DC) (°C/W)	Notes	Fax-on-Demand
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Thyristors

A-36 (R-Puk)

ST2100C40R0	4000	3850	1770	80	29000	30350	4	400	1.88	2900	500	0.012	2 3 7 11	
ST2100C42R0	4200	3850	1770	80	29000	30350	4	400	1.88	2900	500	0.012	2 3 7 11	
ST2600C20R0	2000	4800	2220	80	36800	38500	4	400	1.45	2900	500	0.012	2 3 7 11	
ST2600C22R0	2200	4800	2220	80	36800	38500	4	400	1.45	2900	500	0.012	2 3 7 11	
ST2600C24R0	2400	4800	2220	80	36800	38500	4	400	1.45	2900	500	0.012	2 3 7 11	
ST2600C26R0	2600	4800	2220	80	36800	38500	4	400	1.45	2900	500	0.012	2 3 7 11	
ST2600C28R0	2800	4800	2220	80	36800	38500	4	400	1.45	2900	500	0.012	2 3 7 11	
ST2600C30R0	3000	4800	2220	80	36800	38500	4	400	1.45	2900	500	0.012	2 3 7 11	
ST3230C10R0	1000	5950	2785	80	49000	51300	4	400	1.3	2900	500	0.012	2 3 7 11	
ST3230C12R0	1200	5950	2785	80	49000	51300	4	400	1.3	2900	500	0.012	2 3 7 11	
ST3230C14R0	1400	5950	2785	80	49000	51300	4	400	1.3	2900	500	0.012	2 3 7 11	
ST3230C16R0	1600	5950	2785	80	49000	51300	4	400	1.3	2900	500	0.012	2 3 7 11	
ST3230C18R0	1800	5950	2785	80	49000	51300	4	400	1.3	2900	500	0.012	2 3 7 11	

NOTES:

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| <p>1 Available on tape-and-reel. Refer to case outline.</p> <p>2 For I_{TSM}: 100% V_{RRM} reapplied, $T_j=T_j \text{ max.}=125^\circ\text{C}$</p> <p>3 For I_{GT}, V_{GT}: $T_j = 25^\circ\text{C}$</p> <p>4 $V_{TM} @ \pi \times I_{T(AV)}$, $T_j=125^\circ\text{C}$</p> | <p>5 dv/dt exponential to 0.67 V_{DRM}. $T_j=25^\circ\text{C}$</p> <p>6 Available with metric stud. To order, add 'M' to part number, e.g.10RIA10M.</p> <p>7 dv/dt linear to 0.8 V_{DRM}; $T_j = 125^\circ\text{C}$</p> <p>8 dv/dt exponential to 100% V_{DRM}; $T_j = 125^\circ\text{C}$</p> | <p>9 V_{TM} measured at $T_j=T_j \text{ max}$</p> <p>10 Max $T_j = 150^\circ\text{C}$</p> <p>11 Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V</p> | <p>12 Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40</p> <p>13 Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40</p> <p>14 DC operation, double side cooled</p> |
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Phase Control SCR

Part Number	VRRM VDRM (V)	$I_{T(AV)}$ (A)	@ $T_{(C)}$ (°C)	V_{TM} (V)	I_{TSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC(DC)}$ (°C/W)	Notes	Fax-on-Demand
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Thyristor Module

									T-MODULE
T50RIA10	100	50	70	1.6	1100	1150	0.65	2 4 22	87105
T50RIA20	200	50	70	1.6	1100	1150	0.65	2 4 22	87105
T50RIA40	400	50	70	1.6	1100	1150	0.65	2 4 22	87105
T50RIA60	600	50	70	1.6	1100	1150	0.65	2 4 22	87105
T50RIA80	800	50	70	1.6	1100	1150	0.65	2 4 22	87105
T50RIA100	1000	50	70	1.6	1100	1150	0.65	2 4 22	87105
T50RIA120	1200	50	70	1.6	1100	1150	0.65	2 4 22	87105
T70RIA10	100	70	70	1.6	1400	1460	0.5	2 4 22	87105
T70RIA20	200	70	70	1.6	1400	1460	0.5	2 4 22	87105
T70RIA40	400	70	70	1.6	1400	1460	0.5	2 4 22	87105
T70RIA60	600	70	70	1.6	1400	1460	0.5	2 4 22	87105
T70RIA80	800	70	70	1.6	1400	1460	0.5	2 4 22	87105
T70RIA100	1000	70	70	1.6	1400	1460	0.5	2 4 22	87105

NOTES:

- Available on tape-and-reel. Refer to case outline.
- For I_{TSM} : 100% VRRM reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$
- For I_{gt} , V_{gt} : $T_j = 25^\circ\text{C}$
- V_{tm} @ π X $I_{t(AV)}$, $T_j = 125^\circ\text{C}$
- dv/dt exponential to 0.67 VDRM. $T_j = 25^\circ\text{C}$
- Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.
- dv/dt linear to 0.8 Vdrm; $T_j = 125^\circ\text{C}$
- dv/dt exponential to 100% VDRM; $T_j = 125^\circ\text{C}$
- V_{tm} measured at $T_j = T_j \text{ max}$
- Max $T_j = 150^\circ\text{C}$
- Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V
- Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40
- Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40
- DC operation, double side cooled
- dv/dt exponential to 0.67; $T_j = 125^\circ\text{C}$
- Available with flag terminal. To order, change last '0' to '2' in part number, e.g. ST180S04P2V
- Available without auxiliary cathode. Refer to case outline for details.
- Available in center tap (circuit common anode or circuit common cathode) configurations. Refer to case outline for details.
- Available with spacers and longer terminal screws. Refer to case outline for details.
- RMS isolation voltage = 3000V - 50Hz
- RMS isolation voltage = 2500V - 50Hz
- Value given for R_{thJC} is per module.
- RMS isolation voltage = 4000V - 50Hz
- RMS isolation voltage = 3500 - 50Hz

Phase Control SCR

Part Number	VRRM VDRM (V)	$I_{T(AV)}$ (A)	@ $T_{(C)}$ (°C)	V_{TM} (V)	I_{TSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC(DC)}$ (°C/W)	Notes	Fax-on-Demand
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Thyristor Module

T70RIA120	1200	70	70	1.6	1400	1460	0.5	2 4 22	T-MODULE 87105
T90RIA10	100	90	70	1.6	1500	1570	0.38	2 4 22	87105
T90RIA20	200	90	70	1.6	1500	1570	0.38	2 4 22	87105
T90RIA40	400	90	70	1.6	1500	1570	0.38	2 4 22	87105
T90RIA60	600	90	70	1.6	1500	1570	0.38	2 4 22	87105
T90RIA80	800	90	70	1.6	1500	1570	0.38	2 4 22	87105
T90RIA100	1000	90	70	1.6	1500	1570	0.38	2 4 22	87105
T90RIA120	1200	90	70	1.6	1500	1570	0.38	2 4 22	87105
IRKT26/04	400	27	85		335	350	0.31	2 16 17 22 25	ADD-A-Pak 27130
IRKT26/06	600	27	85		335	350	0.31	2 16 17 22 25	27130
IRKT26/08	800	27	85		335	350	0.31	2 16 17 22 25	27130
IRKT26/10	1000	27	85		335	350	0.31	2 16 17 22 25	27130
IRKT26/12	1200	27	85		335	350	0.31	2 16 17 22 25	27130

NOTES:

- Available on tape-and-reel. Refer to case outline.
- For I_{TSM} : 100% VRRM reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$
- For I_{gt} , V_{gt} : $T_j = 25^\circ\text{C}$
- V_{tm} @ π X $I_{t(AV)}$, $T_j = 125^\circ\text{C}$
- dv/dt exponential to 0.67 VDRM. $T_j = 25^\circ\text{C}$
- Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.
- dv/dt linear to 0.8 VdrM; $T_j = 125^\circ\text{C}$
- dv/dt exponential to 100% VDRM; $T_j = 125^\circ\text{C}$
- V_{tm} measured at $T_j = T_j \text{ max}$
- Max $T_j = 150^\circ\text{C}$
- Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V
- Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40
- Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40
- DC operation, double side cooled
- dv/dt exponential to 0.67; $T_j = 125^\circ\text{C}$
- Available with flag terminal. To order, change last '0' to '2' in part number, e.g. ST180S04P2V
- Available without auxiliary cathode. Refer to case outline for details.
- Available in center tap (circuit common anode or circuit common cathode) configurations. Refer to case outline for details.
- Available with spacers and longer terminal screws. Refer to case outline for details.
- RMS isolation voltage = 3000V - 50Hz
- RMS isolation voltage = 2500V - 50Hz
- Value given for R_{thJC} is per module.
- RMS isolation voltage = 4000V - 50Hz
- RMS isolation voltage = 3500 - 50Hz

Phase Control SCR

Part Number	VRRM	$I_{T(AV)}$ @ $T_{(C)}$		I_{TSM}		$R_{\theta JC(DC)}$	Notes	Fax-on-Demand
	VDRM	(A)	(°C)	50 Hz	60 Hz			

Thyristor / Thyristor Module

ADD-A-Pak

IRKT26/14	1400	27	85	335	350	0.31	2 16 17 22 25	27130
IRKT26/16	1600	27	85	335	350	0.31	2 16 17 22 25	27130
IRKT41/04	400	45	85	715	750	0.23	2 16 17 18 22 25	27131
IRKT41/06	600	45	85	715	750	0.23	2 16 17 18 22 25	27131
IRKT41/08	800	45	85	715	750	0.23	2 16 17 18 22 25	27131
IRKT41/10	1000	45	85	715	750	0.23	2 16 17 18 22 25	27131
IRKT41/12	1200	45	85	715	750	0.23	2 16 17 18 22 25	27131
IRKT41/14	1400	45	85	715	750	0.23	2 16 17 18 22 25	27131
IRKT41/16	1600	45	85	715	750	0.23	2 16 17 18 22 25	27131
IRKT56/04	400	60	85	1100	1150	0.2	2 16 17 18 22 25	27131
IRKT56/06	600	60	85	1100	1150	0.2	2 16 17 18 22 25	27131
IRKT56/08	800	60	85	1100	1150	0.2	2 16 17 18 22 25	27131
IRKT56/10	1000	60	85	1100	1150	0.2	2 16 17 18 22 25	27131
IRKT56/12	1200	60	85	1100	1150	0.2	2 16 17 18 22 25	27131

NOTES:

- Available on tape-and-reel. Refer to case outline.
- For I_{TSM} : 100% VRRM reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$
- For I_{gt} , V_{gt} : $T_j = 25^\circ\text{C}$
- V_{tm} @ $\pi \times I_{t(AV)}$, $T_j = 125^\circ\text{C}$
- dv/dt exponential to 0.67 VDRM. $T_j = 25^\circ\text{C}$
- Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.
- dv/dt linear to 0.8 VdrM; $T_j = 125^\circ\text{C}$
- dv/dt exponential to 100% VDRM; $T_j = 125^\circ\text{C}$
- V_{tm} measured at $T_j = T_j \text{ max}$
- Max $T_j = 150^\circ\text{C}$
- Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V
- Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40
- Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40
- DC operation, double side cooled
- dv/dt exponential to 0.67; $T_j = 125^\circ\text{C}$
- Available with flag terminal. To order, change last '0' to '2' in part number, e.g. ST180S04P2V
- Available without auxiliary cathode. Refer to case outline for details.
- Available in center tap (circuit common anode or circuit common cathode) configurations. Refer to case outline for details.
- Available with spacers and longer terminal screws. Refer to case outline for details.
- RMS isolation voltage = 3000V - 50Hz
- RMS isolation voltage = 2500V - 50Hz
- Value given for R_{thJC} is per module.
- RMS isolation voltage = 4000V - 50Hz
- RMS isolation voltage = 3500 - 50Hz

Phase Control SCR

Part Number	VRRM VDRM (V)	$I_{T(AV)}$ @ T_C (A) (°C)	I_{TSM} 50 Hz 60 Hz (A) (A)	$R_{\theta JC(DC)}$ (°C/W)	Notes	Fax-on-Demand
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Thyristor / Thyristor Module

ADD-A-Pak

IRKT56/14	1400	60	85	1100	1150	0.2	2 16 17 18 22 25	27131
IRKT56/16	1600	60	85	1100	1150	0.2	2 16 17 18 22 25	27131
IRKT71/04	400	75	85	1400	1470	0.165	2 16 17 18 22 25	27132
IRKT71/06	600	75	85	1400	1470	0.165	2 16 17 18 22 25	27132
IRKT71/08	800	75	85	1400	1470	0.165	2 16 17 18 22 25	27132
IRKT71/10	1000	75	85	1400	1470	0.165	2 16 17 18 22 25	27132
IRKT71/12	1200	75	85	1400	1470	0.165	2 16 17 18 22 25	27132
IRKT71/14	1400	75	85	1400	1470	0.165	2 16 17 18 22 25	27132
IRKT71/16	1600	75	85	1400	1470	0.165	2 16 17 18 22 25	27132
IRKT91/04	400	95	85	1500	1570	0.135	2 16 17 18 22 25	27132
IRKT91/06	600	95	85	1500	1570	0.135	2 16 17 18 22 25	27132
IRKT91/08	800	95	85	1500	1570	0.135	2 16 17 18 22 25	27132
IRKT91/10	1000	95	85	1500	1570	0.135	2 16 17 18 22 25	27132
IRKT91/12	1200	95	85	1500	1570	0.135	2 16 17 18 22 25	27132

NOTES:

- Available on tape-and-reel. Refer to case outline.
- For I_{TSM} : 100% VRRM reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$
- For I_{gt} , V_{gt} : $T_j = 25^\circ\text{C}$
- V_{tm} @ $\pi \times I_{t(AV)}$, $T_j = 125^\circ\text{C}$
- dv/dt exponential to 0.67 VDRM. $T_j = 25^\circ\text{C}$
- Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.
- dv/dt linear to 0.8 VdrM; $T_j = 125^\circ\text{C}$
- dv/dt exponential to 100% VDRM; $T_j = 125^\circ\text{C}$
- V_{tm} measured at $T_j = T_j \text{ max}$
- Max $T_j = 150^\circ\text{C}$
- Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V
- Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40
- Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40
- DC operation, double side cooled
- dv/dt exponential to 0.67; $T_j = 125^\circ\text{C}$
- Available with flag terminal. To order, change last '0' to '2' in part number, e.g. ST180S04P2V
- Available without auxiliary cathode. Refer to case outline for details.
- Available in center tap (circuit common anode or circuit common cathode) configurations. Refer to case outline for details.
- Available with spacers and longer terminal screws. Refer to case outline for details.
- RMS isolation voltage = 3000V - 50Hz
- RMS isolation voltage = 2500V - 50Hz
- Value given for R_{thJC} is per module.
- RMS isolation voltage = 4000V - 50Hz
- RMS isolation voltage = 3500 - 50Hz

Phase Control SCR

Part Number	VRRM VDRM (V)	$I_{T(AV)}$ @ T_C (A) (°C)	I_{TSM} 50 Hz 60 Hz (A) (A)	$R_{\theta JC(DC)}$ (°C/W)	Notes	Fax-on-Demand
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Thyristor / Thyristor Module

IRKT91/14	1400	95	85	1500	1570	0.135	2 16 17 18 22 25	27132
IRKT91/16	1600	95	85	1500	1570	0.135	2 16 17 18 22 25	27132
IRKT105/04	400	105	85	1500	1570	0.135	2 16 17 18 22 25	27133
IRKT105/06	600	105	85	1500	1570	0.135	2 16 17 18 22 25	27133
IRKT105/08	800	105	85	1500	1570	0.135	2 16 17 18 22 25	27133
IRKT105/10	1000	105	85	1500	1570	0.135	2 16 17 18 22 25	27133
IRKT105/12	1200	105	85	1500	1570	0.135	2 16 17 18 22 25	27133
IRKT105/14	1400	105	85	1500	1570	0.135	2 16 17 18 22 25	27133
IRKT105/16	1600	105	85	1500	1570	0.135	2 16 17 18 22 25	27133
ADD-A-Pak								
IRKT136-04	400	135	85	2700	2800	0.1	2 18 19 20 22	87101
IRKT136-08	800	135	85	2700	2800	0.1	2 18 19 20 22	87101
IRKT136-12	1200	135	85	2700	2800	0.1	2 18 19 20 22	87101
IRKT136-14	1400	135	85	2700	2800	0.1	2 18 19 20 22	87101
INT-A-Pak								

NOTES:

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|--|--|---|---|
| <p>1 Available on tape-and-reel. Refer to case outline.</p> <p>2 For I_{TSM}: 100% VRRM reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$</p> <p>3 For I_{gt}, V_{gt}: $T_j = 25^\circ\text{C}$</p> <p>4 V_{tm} @ π X $I_{t(AV)}$, $T_j = 125^\circ\text{C}$</p> <p>5 dv/dt exponential to 0.67 VDRM. $T_j = 25^\circ\text{C}$</p> <p>6 Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.</p> <p>7 dv/dt linear to 0.8 VdrM; $T_j = 125^\circ\text{C}$</p> | <p>8 dv/dt exponential to 100% VDRM; $T_j = 125^\circ\text{C}$</p> <p>9 V_{tm} measured at $T_j = T_j \text{ max}$</p> <p>10 Max $T_j = 150^\circ\text{C}$</p> <p>11 Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V</p> <p>12 Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40</p> <p>13 Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40</p> | <p>14 DC operation, double side cooled</p> <p>15 dv/dt exponential to 0.67; $T_j = 125^\circ\text{C}$</p> <p>16 Available with flag terminal. To order, change last '0' to '2' in part number, e.g. ST180S04P2V</p> <p>17 Available without auxiliary cathode. Refer to case outline for details.</p> <p>18 Available in center tap (circuit common anode or circuit common cathode) configurations. Refer to case outline for details.</p> | <p>19 Available with spacers and longer terminal screws. Refer to case outline for details.</p> <p>20 RMS isolation voltage = 3000V - 50Hz</p> <p>21 RMS isolation voltage = 2500V - 50Hz</p> <p>22 Value given for R_{thJC} is per module.</p> <p>24 RMS isolation voltage = 4000V - 50Hz</p> <p>25 RMS isolation voltage = 3500 - 50Hz</p> |
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Phase Control SCR

Part Number	VRRM	$I_{T(AV)}$ @ $T_{(C)}$		I_{TSM}		$R_{\theta JC(DC)}$	Notes	Fax-on-Demand
	VDRM (V)	(A)	(°C)	50 Hz (A)	60 Hz (A)			

Thyristor / Thyristor Module

									INT-A-Pak
IRKT136-16	1600	135	85	2700	2800	0.1	2 18 19 20 22		87101
IRKT142-08	800	140	85	4000	4200	0.085	2 18 19 20 22		87101
IRKT142-12	1200	140	85	4000	4200	0.085	2 18 19 20 22		87101
IRKT142-16	1600	140	85	4000	4200	0.085	2 18 19 20 22		87101
IRKT142-18	1800	140	85	4000	4200	0.085	2 18 19 20 22		87101
IRKT142-20	2000	140	85	4000	4200	0.085	2 18 19 20 22		87101
IRKT162-04	400	160	85	4300	4500	0.085	2 18 19 20 22		87101
IRKT162-08	800	160	85	4300	4500	0.085	2 18 19 20 22		87101
IRKT162-12	1200	160	85	4300	4500	0.085	2 18 19 20 22		87101
IRKT162-14	1400	160	85	4300	4500	0.085	2 18 19 20 22		87101
IRKT162-16	1600	160	85	4300	4500	0.085	2 18 19 20 22		87101
									MAGN-A-Pak
IRKT170-04	400	170	85	4300	4500	0.085	2 18 20 22		87102
IRKT170-08	800	170	85	4300	4500	0.085	2 18 20 22		87102

NOTES:

- Available on tape-and-reel. Refer to case outline.
- For I_{TSM} : 100% VRRM reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$
- For I_{gt} , V_{gt} : $T_j = 25^\circ\text{C}$
- V_{tm} @ π X $I_{t(AV)}$, $T_j = 125^\circ\text{C}$
- dv/dt exponential to 0.67 VDRM. $T_j = 25^\circ\text{C}$
- Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.
- dv/dt linear to 0.8 VdrM; $T_j = 125^\circ\text{C}$
- dv/dt exponential to 100% VDRM; $T_j = 125^\circ\text{C}$
- V_{tm} measured at $T_j = T_j \text{ max}$
- Max $T_j = 150^\circ\text{C}$
- Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V
- Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40
- Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40
- DC operation, double side cooled
- dv/dt exponential to 0.67; $T_j = 125^\circ\text{C}$
- Available with flag terminal. To order, change last '0' to '2' in part number, e.g. ST180S04P2V
- Available without auxiliary cathode. Refer to case outline for details.
- Available in center tap (circuit common anode or circuit common cathode) configurations. Refer to case outline for details.
- Available with spacers and longer terminal screws. Refer to case outline for details.
- RMS isolation voltage = 3000V - 50Hz
- RMS isolation voltage = 2500V - 50Hz
- Value given for R_{thJC} is per module.
- RMS isolation voltage = 4000V - 50Hz
- RMS isolation voltage = 3500 - 50Hz

Phase Control SCR

Part Number	VRRM VDRM (V)	$I_{T(AV)}$ @ T_C (A) (°C)	I_{TSM} 50 Hz 60 Hz (A) (A)	$R_{\theta JC(DC)}$ (°C/W)	Notes	Fax-on-Demand
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Thyristor / Thyristor Module

MAGN-A-Pak

IRKT170-12	1200	170	85	4300	4500	0.085	2 18 20 22	87102
IRKT170-14	1400	170	85	4300	4500	0.085	2 18 20 22	87102
IRKT170-16	1600	170	85	4300	4500	0.085	2 18 20 22	87102
IRKT230-08	800	230	85	6300	6600	0.063	2 18 20 22	87102
IRKT230-12	1200	230	85	6300	6600	0.063	2 18 20 22	87102
IRKT230-16	1600	230	85	6300	6600	0.063	2 18 20 22	87102
IRKT230-18	1800	230	85	6300	6600	0.063	2 18 20 22	87102
IRKT230-20	2000	230	85	6300	6600	0.063	2 18 20 22	87102
IRKT250-04	400	250	85	7150	7500	0.063	2 18 20 22	87102
IRKT250-08	800	250	85	7150	7500	0.063	2 18 20 22	87102
IRKT250-12	1200	250	85	7150	7500	0.063	2 18 20 22	87102
IRKT250-14	1400	250	85	7150	7500	0.063	2 18 20 22	87102
IRKT250-16	1600	250	85	7150	7500	0.063	2 18 20 22	87102

NOTES:

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|---|--|--|--|
| 1 Available on tape-and-reel. Refer to case outline. | 8 dv/dt exponential to 100% VDRM; $T_j = 125^\circ\text{C}$ | 14 DC operation, double side cooled | 19 Available with spacers and longer terminal screws. Refer to case outline for details. |
| 2 For I_{TSM} : 100% VRRM reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$ | 9 V_{TM} measured at $T_j = T_j \text{ max}$ | 15 dv/dt exponential to 0.67; $T_j = 125^\circ\text{C}$ | 20 RMS isolation voltage = 3000V - 50Hz |
| 3 For I_{GT} , V_{GT} : $T_j = 25^\circ\text{C}$ | 10 Max $T_j = 150^\circ\text{C}$ | 16 Available with flag terminal. To order, change last '0' to '2' in part number, e.g. ST180S04P2V | 21 RMS isolation voltage = 2500V - 50Hz |
| 4 V_{TM} @ π X $I_{T(AV)}$, $T_j = 125^\circ\text{C}$ | 11 Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V | 17 Available without auxiliary cathode. Refer to case outline for details. | 22 Value given for R_{thJC} is per module. |
| 5 dv/dt exponential to 0.67 VDRM. $T_j = 25^\circ\text{C}$ | 12 Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40 | 18 Available in center tap (circuit common anode or circuit common cathode) configurations. Refer to case outline for details. | 24 RMS isolation voltage = 4000V - 50Hz |
| 6 Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M. | 13 Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40 | | 25 RMS isolation voltage = 3500 - 50Hz |
| 7 dv/dt linear to 0.8 VdrM; $T_j = 125^\circ\text{C}$ | | | |

Phase Control SCR

Part Number	VRRM VDRM (V)	$I_{T(AV)}$ @ $T_{(C)}$ (A) (°C)	I_{TSM} 50 Hz 60 Hz (A) (A)	$R_{\theta JC(DC)}$ (°C/W)	Notes	Fax-on-Demand
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Thyristor / Thyristor Module

Super MAGN-A-Pak

IRKT430-16	1600	430	82	13200	13800	0.032	2 20 22
IRKT430-18	1800	430	82	13200	13800	0.032	2 20 22
IRKT430-20	2000	430	82	13200	13800	0.032	2 20 22
IRKT500-08	800	500	82	15000	15700	0.032	2 20 22
IRKT500-12	1200	500	82	15000	15700	0.032	2 20 22
IRKT500-14	1400	500	82	15000	15700	0.032	2 20 22
IRKT500-16	1600	500	82	15000	15700	0.032	2 20 22

NOTES:

- Available on tape-and-reel. Refer to case outline.
- For I_{TSM} : 100% VRRM reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$
- For I_{gt} , V_{gt} : $T_j = 25^\circ\text{C}$
- V_{tm} @ $\pi \times I_{t(AV)}$, $T_j = 125^\circ\text{C}$
- dv/dt exponential to 0.67 VDRM. $T_j = 25^\circ\text{C}$
- Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.
- dv/dt linear to 0.8 VdrM; $T_j = 125^\circ\text{C}$
- dv/dt exponential to 100% VDRM; $T_j = 125^\circ\text{C}$
- V_{tm} measured at $T_j = T_j \text{ max}$
- Max $T_j = 150^\circ\text{C}$
- Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V
- Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40
- Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40
- DC operation, double side cooled
- dv/dt exponential to 0.67; $T_j = 125^\circ\text{C}$
- Available with flag terminal. To order, change last '0' to '2' in part number, e.g. ST180S04P2V
- Available without auxiliary cathode. Refer to case outline for details.
- Available in center tap (circuit common anode or circuit common cathode) configurations. Refer to case outline for details.
- Available with spacers and longer terminal screws. Refer to case outline for details.
- RMS isolation voltage = 3000V - 50Hz
- RMS isolation voltage = 2500V - 50Hz
- Value given for R_{thJC} is per module.
- RMS isolation voltage = 4000V - 50Hz
- RMS isolation voltage = 3500 - 50Hz

Phase Control SCR

Part Number Doubler Circuit Positive Control	Part Number Doubler Circuit Negative Control	VRRM VDRM (V)	$I_{T(AV)}$ (A)	@ $T_{(C)}$ (°C)	I_{TSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC(DC)}$ (°C/W)	Notes	Fax-on-Demand
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Thyristor / Diode

									ADD-A-Pak
IRKH26/04	IRKL26/04	400	27	85	335	350	0.31	2 16 17 22 25	27130
IRKH26/06	IRKL26/06	600	27	85	335	350	0.31	2 16 17 22 25	27130
IRKH26/08	IRKL26/08	800	27	85	335	350	0.31	2 16 17 22 25	27130
IRKH26/10	IRKL26/10	1000	27	85	335	350	0.31	2 16 17 22 25	27130
IRKH26/12	IRKL26/12	1200	27	85	335	350	0.31	2 16 17 22 25	27130
IRKH26/14	IRKL26/14	1400	27	85	335	350	0.31	2 16 17 22 25	27130
IRKH26/16	IRKL26/16	1600	27	85	335	350	0.31	2 16 17 22 25	27130
IRKH41/04	IRKL41/04	400	45	85	715	750	0.23	2 16 17 22 25	27131
IRKH41/06	IRKL41/06	600	45	85	715	750	0.23	2 16 17 22 25	27131
IRKH41/08	IRKL41/08	800	45	85	715	750	0.23	2 16 17 22 25	27131
IRKH41/10	IRKL41/10	1000	45	85	715	750	0.23	2 16 17 22 25	27131
IRKH41/12	IRKL41/12	1200	45	85	715	750	0.23	2 16 17 22 25	27131
IRKH41/14	IRKL41/14	1400	45	85	715	750	0.23	2 16 17 22 25	27131

NOTES:

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|--|--|---|---|
| <p>1 Available on tape-and-reel. Refer to case outline.</p> <p>2 For I_{TSM}: 100% VRRM reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$</p> <p>3 For I_{gt}, V_{gt}: $T_j = 25^\circ\text{C}$</p> <p>4 V_{tm} @ $\pi \times I_{t(AV)}$, $T_j = 125^\circ\text{C}$</p> <p>5 dv/dt exponential to 0.67 VDRM. $T_j = 25^\circ\text{C}$</p> <p>6 Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.</p> <p>7 dv/dt linear to 0.8 Vdrm; $T_j = 125^\circ\text{C}$</p> | <p>8 dv/dt exponential to 100% VDRM; $T_j = 125^\circ\text{C}$</p> <p>9 V_{tm} measured at $T_j = T_j \text{ max}$</p> <p>10 Max $T_j = 150^\circ\text{C}$</p> <p>11 Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V</p> <p>12 Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40</p> <p>13 Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40</p> | <p>14 DC operation, double side cooled</p> <p>15 dv/dt exponential to 0.67; $T_j = 125^\circ\text{C}$</p> <p>16 Available with flag terminal. To order, change last '0' to '2' in part number, e.g. ST180S04P2V</p> <p>17 Available without auxiliary cathode. Refer to case outline for details.</p> <p>18 Available in center tap (circuit common anode or circuit common cathode) configurations. Refer to case outline for details.</p> | <p>19 Available with spacers and longer terminal screws. Refer to case outline for details.</p> <p>20 RMS isolation voltage = 3000V - 50Hz</p> <p>21 RMS isolation voltage = 2500V - 50Hz</p> <p>22 Value given for R_{thJC} is per module.</p> <p>24 RMS isolation voltage = 4000V - 50Hz</p> <p>25 RMS isolation voltage = 3500 - 50Hz</p> |
|--|--|---|---|

Phase Control SCR

Part Number Doubler Circuit Positive Control	Part Number Doubler Circuit Negative Control	VRRM VDRM (V)	$I_{T(AV)}$ (A)	@ $T_{(C)}$ (°C)	I_{TSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC(DC)}$ (°C/W)	Notes	Fax-on-Demand
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Thyristor / Diode

ADD-A-Pak

IRKH41/16	IRKL41/16	1600	45	85	715	750	0.23	2 16 17 22 25	27131
IRKH56/04	IRKL56/04	400	60	85	1100	1150	0.2	2 16 17 22 25	27131
IRKH56/06	IRKL56/06	600	60	85	1100	1150	0.2	2 16 17 22 25	27131
IRKH56/08	IRKL56/08	800	60	85	1100	1150	0.2	2 16 17 22 25	27131
IRKH56/10	IRKL56/10	1000	60	85	1100	1150	0.2	2 16 17 22 25	27131
IRKH56/12	IRKL56/12	1200	60	85	1100	1150	0.2	2 16 17 22 25	27131
IRKH56/14	IRKL56/14	1400	60	85	1100	1150	0.2	2 16 17 22 25	27131
IRKH56/16	IRKL56/16	1600	60	85	1100	1150	0.2	2 16 17 22	27131
IRKH71/04	IRKL71/04	400	75	85	1400	1470	0.165	2 16 17 22	27132
IRKH71/06	IRKL71/06	600	75	85	1400	1470	0.165	2 16 17 22	27132
IRKH71/08	IRKL71/08	800	75	85	1400	1470	0.165	2 16 17 22	27132
IRKH71/10	IRKL71/10	1000	75	85	1400	1470	0.165	2 16 17 22	27132
IRKH71/12	IRKL71/12	1200	75	85	1400	1470	0.165	2 16 17 22	27132
IRKH71/14	IRKL71/14	1400	75	85	1400	1470	0.165	2 16 17 22	27132

NOTES:

- Available on tape-and-reel. Refer to case outline.
- For I_{TSM} : 100% VRRM reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$
- For I_{gt} , V_{gt} : $T_j = 25^\circ\text{C}$
- V_{tm} @ $\pi \times I_t(AV)$, $T_j = 125^\circ\text{C}$
- dv/dt exponential to 0.67 VDRM. $T_j = 25^\circ\text{C}$
- Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.
- dv/dt linear to 0.8 VdrM; $T_j = 125^\circ\text{C}$
- dv/dt exponential to 100% VDRM; $T_j = 125^\circ\text{C}$
- V_{tm} measured at $T_j = T_j \text{ max}$
- Max $T_j = 150^\circ\text{C}$
- Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V
- Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40
- Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40
- DC operation, double side cooled
- dv/dt exponential to 0.67; $T_j = 125^\circ\text{C}$
- Available with flag terminal. To order, change last '0' to '2' in part number, e.g. ST180S04P2V
- Available without auxiliary cathode. Refer to case outline for details.
- Available in center tap (circuit common anode or circuit common cathode) configurations. Refer to case outline for details.
- Available with spacers and longer terminal screws. Refer to case outline for details.
- RMS isolation voltage = 3000V - 50Hz
- RMS isolation voltage = 2500V - 50Hz
- Value given for R_{thJC} is per module.
- RMS isolation voltage = 4000V - 50Hz
- RMS isolation voltage = 3500 - 50Hz

Phase Control SCR

Part Number Doubler Circuit Positive Control	Part Number Doubler Circuit Negative Control	VRRM VDRM (V)	$I_{T(AV)}$ (A)	@ $T_{(C)}$ (°C)	I_{TSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC(DC)}$ (°C/W)	Notes	Fax-on-Demand
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Thyristor / Diode

ADD-A-Pak

IRKH71/16	IRKL71/16	1600	75	85	1400	1470	0.165	2 16 17 22	27132
IRKH91/04	IRKL91/04	400	95	85	1500	1570	0.135	2 16 17 22	27132
IRKH91/06	IRKL91/06	600	95	85	1500	1570	0.135	2 16 17 22	27132
IRKH91/08	IRKL91/08	800	95	85	1500	1570	0.135	2 16 17 22	27132
IRKH91/10	IRKL91/10	1000	95	85	1500	1570	0.135	2 16 17 22	27132
IRKH91/12	IRKL91/12	1200	95	85	1500	1570	0.135	2 16 17 22	27132
IRKH91/14	IRKL91/14	1400	95	85	1500	1570	0.135	2 16 17 22	27132
IRKH91/16	IRKL91/16	1600	95	85	1500	1570	0.135	2 16 17 22	27132
IRKH105/16	IRKL105/16	1600	95	85	1500	1570	0.135	2 16 17 22	27133
IRKH105/04	IRKL105/04	400	105	85	1500	1570	0.135	2 16 17 22	27133
IRKH105/06	IRKL105/06	600	105	85	1500	1570	0.135	2 16 17 22	27133
IRKH105/08	IRKL105/08	800	105	85	1500	1570	0.135	2 16 17 22	27133
IRKH105/10	IRKL105/10	1000	105	85	1500	1570	0.135	2 16 17 22	27133
IRKH105/12	IRKL105/12	1200	105	85	1500	1570	0.135	2 16 17 22	27133

NOTES:

- Available on tape-and-reel. Refer to case outline.
- For I_{TSM} : 100% VRRM reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$
- For I_{gt} , V_{gt} : $T_j = 25^\circ\text{C}$
- V_{tm} @ $\pi \times I_t(AV)$, $T_j = 125^\circ\text{C}$
- dv/dt exponential to 0.67 VDRM. $T_j = 25^\circ\text{C}$
- Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.
- dv/dt linear to 0.8 Vdrm; $T_j = 125^\circ\text{C}$
- dv/dt exponential to 100% VDRM; $T_j = 125^\circ\text{C}$
- V_{tm} measured at $T_j = T_j \text{ max}$
- Max $T_j = 150^\circ\text{C}$
- Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V
- Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40
- Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40
- DC operation, double side cooled
- dv/dt exponential to 0.67; $T_j = 125^\circ\text{C}$
- Available with flag terminal. To order, change last '0' to '2' in part number, e.g. ST180S04P2V
- Available without auxiliary cathode. Refer to case outline for details.
- Available in center tap (circuit common anode or circuit common cathode) configurations. Refer to case outline for details.
- Available with spacers and longer terminal screws. Refer to case outline for details.
- RMS isolation voltage = 3000V - 50Hz
- RMS isolation voltage = 2500V - 50Hz
- Value given for R_{thJC} is per module.
- RMS isolation voltage = 4000V - 50Hz
- RMS isolation voltage = 3500 - 50Hz

Phase Control SCR

		I_{TSM}	$R_{\theta JC(DC)}$			Notes	Fax-on-Demand
	I_{TSM}	50 Hz	60 Hz	(A)	(A)	(°C/W)	
	(A)	(A)	(A)	(A)	(A)	(°C/W)	

Thyristor / Diode

Part No.	Part No.	1400	105	85	1500	1570	0.135	2 16 17 22	27133
IRKH105/14	IRKL105/14	1400	105	85	1500	1570	0.135	2 16 17 22	27133
IRKH136-04	IRKL136-04	400	135	85	2700	2800	0.1	2 19 20 22	87101
IRKH136-08	IRKL136-08	800	135	85	2700	2800	0.1	2 19 20 22	87101
IRKH136-12	IRKL136-12	1200	135	85	2700	2800	0.1	2 19 20 22	87101
IRKH136-14	IRKL136-14	1400	135	85	2700	2800	0.1	2 19 20 22	87101
IRKH136-16	IRKL136-16	1600	135	85	2700	2800	0.1	2 19 20 22	87101
IRKH142-08	IRKL142-08	800	140	85	4000	4200	0.085	2 19 20 22	87101
IRKH142-12	IRKL142-12	1200	140	85	4000	4200	0.085	2 19 20 22	87101
IRKH142-16	IRKL142-16	1600	140	85	4000	4200	0.085	2 19 20 22	87101
IRKH142-18	IRKL142-18	1800	140	85	4000	4200	0.085	2 19 20 22	87101
IRKH142-20	IRKL142-20	2000	140	85	4000	4200	0.085	2 19 20 22	87101
IRKH162-04	IRKL162-04	400	160	85	4300	4500	0.085	2 19 20 22	87101
IRKH162-08	IRKL162-08	800	160	85	4300	4500	0.085	2 19 20 22	87101

ADD-A-Pak

INT-A-Pak

NOTES:

- Available on tape-and-reel. Refer to case outline.
- For I_{TSM} : 100% VRRM reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$
- For I_{gt} , V_{gt} : $T_j = 25^\circ\text{C}$
- V_{tm} @ $\pi \times I_t(AV)$, $T_j = 125^\circ\text{C}$
- dv/dt exponential to 0.67 VDRM. $T_j = 25^\circ\text{C}$
- Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.
- dv/dt linear to 0.8 Vdrm; $T_j = 125^\circ\text{C}$
- dv/dt exponential to 100% VDRM; $T_j = 125^\circ\text{C}$
- V_{tm} measured at $T_j = T_j \text{ max}$
- Max $T_j = 150^\circ\text{C}$
- Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V
- Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40
- Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40
- DC operation, double side cooled
- dv/dt exponential to 0.67; $T_j = 125^\circ\text{C}$
- Available with flag terminal. To order, change last '0' to '2' in part number, e.g. ST180S04P2V
- Available without auxiliary cathode. Refer to case outline for details.
- Available in center tap (circuit common anode or circuit common cathode) configurations. Refer to case outline for details.
- Available with spacers and longer terminal screws. Refer to case outline for details.
- RMS isolation voltage = 3000V - 50Hz
- RMS isolation voltage = 2500V - 50Hz
- Value given for R_{thJC} is per module.
- RMS isolation voltage = 4000V - 50Hz
- RMS isolation voltage = 3500 - 50Hz

Phase Control SCR

Part Number Doubler Circuit Positive Control	Part Number Doubler Circuit Negative Control	VRRM VDRM (V)	$I_{T(AV)}$ (A)	@ $T_{(C)}$ (°C)	I_{TSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC(DC)}$ (°C/W)	Notes	Fax-on-Demand
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Thyristor / High Voltage Diode

IRKH162-12	IRKL162-12	1200	160	85	4300	4500	0.085	2 19 20 22	INT-A-Pak 87101
IRKH162-14	IRKL162-14	1400	160	85	4300	4500	0.085	2 19 20 22	87101
IRKH162-16	IRKL162-16	1600	160	85	4300	4500	0.085	2 19 20 22	87101
IRKH170-04	IRKL170-04	400	170	85	4300	4500	0.085	2 20 22	MAGN-A-Pak 87102
IRKH170-08	IRKL170-08	800	170	85	4300	4500	0.085	2 20 22	87102
IRKH170-12	IRKL170-12	1200	170	85	4300	4500	0.085	2 20 22	87102
IRKH170-14	IRKL170-14	1400	170	85	4300	4500	0.085	2 20 22	87102
IRKH170-16	IRKL170-16	1600	170	85	4300	4500	0.085	2 20 22	87102
IRKH230-08	IRKL230-08	800	230	85	6300	6600	0.063	2 20 22	87102
IRKH230-12	IRKL230-12	1200	230	85	6300	6600	0.063	2 20 22	87102
IRKH230-16	IRKL230-16	1600	230	85	6300	6600	0.063	2 20 22	87102
IRKH230-18	IRKL230-18	1800	230	85	6300	6600	0.063	2 20 22	87102
IRKH230-20	IRKL230-20	2000	230	85	6300	6600	0.063	2 20 22	87102

NOTES:

- Available on tape-and-reel. Refer to case outline.
- For I_{TSM} : 100% VRRM reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$
- For I_{gt} , V_{gt} : $T_j = 25^\circ\text{C}$
- V_{tm} @ π X $I_{t(AV)}$, $T_j = 125^\circ\text{C}$
- dv/dt exponential to 0.67 VDRM. $T_j = 25^\circ\text{C}$
- Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.
- dv/dt linear to 0.8 VdrM; $T_j = 125^\circ\text{C}$
- dv/dt exponential to 100% VDRM; $T_j = 125^\circ\text{C}$
- V_{tm} measured at $T_j = T_j \text{ max}$
- Max $T_j = 150^\circ\text{C}$
- Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V
- Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40
- Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40
- DC operation, double side cooled
- dv/dt exponential to 0.67; $T_j = 125^\circ\text{C}$
- Available with flag terminal. To order, change last '0' to '2' in part number, e.g. ST180S04P2V
- Available without auxiliary cathode. Refer to case outline for details.
- Available in center tap (circuit common anode or circuit common cathode) configurations. Refer to case outline for details.
- Available with spacers and longer terminal screws. Refer to case outline for details.
- RMS isolation voltage = 3000V - 50Hz
- RMS isolation voltage = 2500V - 50Hz
- Value given for R_{thJC} is per module.
- RMS isolation voltage = 4000V - 50Hz
- RMS isolation voltage = 3500 - 50Hz

Phase Control SCR

Part Number Doubler Circuit Positive Control	Part Number Doubler Circuit Negative Control	VRRM VDRM (V)	$I_{T(AV)}$ (A)	@ $T_{(C)}$ (°C)	I_{TSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC(DC)}$ (°C/W)	Notes	Fax-on-Demand
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Thyristor / High Voltage Diode

								MAGN-A-Pak	
IRKH250-04	IRKL250-04	400	250	85	7150	7500	0.063	2 20 22	87102
IRKH250-08	IRKL250-08	800	250	85	7150	7500	0.063	2 20 22	87102
IRKH250-12	IRKL250-12	1200	250	85	7150	7500	0.063	2 20 22	87102
IRKH250-14	IRKL250-14	1400	250	85	7150	7500	0.063	2 20 22	87102
IRKH250-16	IRKL250-16	1600	250	85	7150	7500	0.063	2 20 22	87102
								Super MAGN-A-Pak	
IRKH430-16	IRKL430-16	1600	430	82	13200	13800	0.032	2 20 22	
IRKH430-18	IRKL430-18	1800	430	82	13200	13800	0.032	2 20 22	
IRKH430-20	IRKL430-20	2000	430	82	13200	13800	0.032	2 20 22	
IRKH500-08	IRKL500-08	800	500	82	15000	15700	0.032	2 20 22	
IRKH500-12	IRKL500-12	1200	500	82	15000	15700	0.032	2 20 22	
IRKH500-14	IRKL500-14	1400	500	82	15000	15700	0.032	2 20 22	
IRKH500-16	IRKL500-16	1600	500	82	15000	15700	0.032	2 20 22	

NOTES:

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|---|--|--|--|
| 1 Available on tape-and-reel. Refer to case outline. | 8 dv/dt exponential to 100% VDRM; $T_j = 125^\circ\text{C}$ | 14 DC operation, double side cooled | 19 Available with spacers and longer terminal screws. Refer to case outline for details. |
| 2 For I_{TSM} : 100% VRRM reapplied, $T_j = T_{j \text{ max.}} = 125^\circ\text{C}$ | 9 V_{tm} measured at $T_j = T_{j \text{ max}}$ | 15 dv/dt exponential to 0.67; $T_j = 125^\circ\text{C}$ | 20 RMS isolation voltage = 3000V - 50Hz |
| 3 For I_{gt} , V_{gt} : $T_j = 25^\circ\text{C}$ | 10 Max $T_j = 150^\circ\text{C}$ | 16 Available with flag terminal. To order, change last '0' to '2' in part number, e.g. ST180S04P2V | 21 RMS isolation voltage = 2500V - 50Hz |
| 4 V_{tm} @ $\pi \times I_t(AV)$, $T_j = 125^\circ\text{C}$ | 11 Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V | 17 Available without auxiliary cathode. Refer to case outline for details. | 22 Value given for R_{thJC} is per module. |
| 5 dv/dt exponential to 0.67 VDRM. $T_j = 25^\circ\text{C}$ | 12 Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40 | 18 Available in center tap (circuit common anode or circuit common cathode) configurations. Refer to case outline for details. | 24 RMS isolation voltage = 4000V - 50Hz |
| 6 Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M. | 13 Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40 | | 25 RMS isolation voltage = 3500 - 50Hz |

Phase Control SCR

Part Number Doubler Circuit Positive Control	Part Number Doubler Circuit Negative Control	Voltage Range Thyristor Diode		$I_{T(AV)}$ @ T_C	I_{TSM} 50 Hz	I_{TSM} 60 Hz	$R_{\theta JC(DC)}$	Notes	Fax-on-Demand
(V)	(V)	(A)	(°C)	(A)	(A)	(°C/W)			

Thyristor / High Voltage Diode

Part Number	Part Number	Voltage Range (V)	Voltage Range (V)	$I_{T(AV)}$ (A)	@ T_C (°C)	I_{TSM} 50 Hz (A)	I_{TSM} 60 Hz (A)	$R_{\theta JC(DC)}$ (°C/W)	Notes	INT-A-Pak
IRKH136-14D	IRKL136-14D20	1400	2000	135	85	2700	2800	0.1	2 19 20 22	87101
IRKH136-16D	IRKL136-16D25	1600	2500	135	85	2700	2800	0.1	2 19 20 22	87101
IRKH142-14D	IRKL142-14D20	1400	2000	140	85	4000	4200	0.085	2 19 20 22	87101
IRKH142-16D	IRKL142-16D25	1600	2500	140	85	4000	4200	0.085	2 19 20 22	87101
IRKH142-18D	IRKL142-18D28	1800	2800	140	85	4000	4200	0.085	2 19 20 22	87101
IRKH142-20D	IRKL142-20D32	2000	3200	140	85	4000	4200	0.085	2 19 20 22	87101
MAGN-A-Pak										
IRKH162-14D	IRKL162-14D20	1400	2000	160	85	4300	4500	0.085	2 20 22	87101
IRKH162-16D	IRKL162-16D25	1600	2500	160	85	4300	4500	0.085	2 20 22	87101
IRKH170-14D	IRKL170-14D20	1400	2000	170	85	4300	4500	0.085	2 20 22	87102
IRKH170-16D	IRKL170-16D25	1600	2500	170	85	4300	4500	0.085	2 20 22	87102
IRKH230-14D	IRKL230-14D20	1400	2000	230	85	6300	6600	0.063	2 20 22	87102
IRKH230-16D	IRKL230-16D25	1600	2500	230	85	6300	6600	0.063	2 20 22	87102

NOTES:

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| 1 Available on tape-and-reel. Refer to case outline. | 8 dv/dt exponential to 100% VDRM; $T_j = 125^\circ\text{C}$ | 14 DC operation, double side cooled | 19 Available with spacers and longer terminal screws. Refer to case outline for details. |
| 2 For I_{TSM} : 100% VRRM reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$ | 9 V_{tm} measured at $T_j = T_j \text{ max}$ | 15 dv/dt exponential to 0.67; $T_j = 125^\circ\text{C}$ | 20 RMS isolation voltage = 3000V - 50Hz |
| 3 For I_{gt} , V_{gt} : $T_j = 25^\circ\text{C}$ | 10 Max $T_j = 150^\circ\text{C}$ | 16 Available with flag terminal. To order, change last '0' to '2' in part number, e.g. ST180S04P2V | 21 RMS isolation voltage = 2500V - 50Hz |
| 4 V_{tm} @ $\pi \times I_t(AV)$, $T_j = 125^\circ\text{C}$ | 11 Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V | 17 Available without auxiliary cathode. Refer to case outline for details. | 22 Value given for R_{thJC} is per module. |
| 5 dv/dt exponential to 0.67 VDRM. $T_j = 25^\circ\text{C}$ | 12 Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40 | 18 Available in center tap (circuit common anode or circuit common cathode) configurations. Refer to case outline for details. | 24 RMS isolation voltage = 4000V - 50Hz |
| 6 Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M. | 13 Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40 | | 25 RMS isolation voltage = 3500 - 50Hz |

Phase Control SCR

Part Number Doubler Circuit Positive Control	Part Number Doubler Circuit Negative Control	Voltage Range Thyristor Diode		$I_{T(AV)}$ @ $T_{(C)}$	I_{TSM} 50 Hz	I_{TSM} 60 Hz	$R_{\theta JC(DC)}$	Notes	Fax-on-Demand
		(V)	(V)	(A)	(°C)	(A)	(A)	(°C/W)	

Thyristor / High Voltage Diode

MAGN-A-Pak

IRKH230-18D	IRKL230-18D28	1800	2800	230	85	6300	6600	0.063	2 20 22	87102
IRKH230-20D	IRKL230-20D32	2000	3200	230	85	6300	6600	0.063	2 20 22	87102
IRKH250-14D	IRKL250-14D20	1400	2000	250	85	7150	7500	0.063	2 20 22	87102
IRKH250-16D	IRKL250-16D25	1600	2500	250	85	7150	7500	0.063	2 20 22	87102

NOTES:

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| <p>1 Available on tape-and-reel. Refer to case outline.</p> <p>2 For I_{TSM}: 100% VRRM reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$</p> <p>3 For I_{gt}, V_{gt}: $T_j = 25^\circ\text{C}$</p> <p>4 V_{tm} @ π X $I_{t(AV)}$, $T_j = 125^\circ\text{C}$</p> <p>5 dv/dt exponential to 0.67 VDRM. $T_j = 25^\circ\text{C}$</p> <p>6 Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.</p> <p>7 dv/dt linear to 0.8 Vdrn; $T_j = 125^\circ\text{C}$</p> | <p>8 dv/dt exponential to 100% VDRM; $T_j = 125^\circ\text{C}$</p> <p>9 V_{tm} measured at $T_j = T_j \text{ max}$</p> <p>10 Max $T_j = 150^\circ\text{C}$</p> <p>11 Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V</p> <p>12 Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40</p> <p>13 Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40</p> | <p>14 DC operation, double side cooled</p> <p>15 dv/dt exponential to 0.67; $T_j = 125^\circ\text{C}$</p> <p>16 Available with flag terminal. To order, change last '0' to '2' in part number, e.g. ST180S04P2V</p> <p>17 Available without auxiliary cathode. Refer to case outline for details.</p> <p>18 Available in center tap (circuit common anode or circuit common cathode) configurations. Refer to case outline for details.</p> | <p>19 Available with spacers and longer terminal screws. Refer to case outline for details.</p> <p>20 RMS isolation voltage = 3000V - 50Hz</p> <p>21 RMS isolation voltage = 2500V - 50Hz</p> <p>22 Value given for R_{thJC} is per module.</p> <p>24 RMS isolation voltage = 4000V - 50Hz</p> <p>25 RMS isolation voltage = 3500 - 50Hz</p> |
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Phase Control SCR

Part Number	w/ free-wheeling diode	w/ free-wheeling diode & voltage suppression	VRRM VDRM (V)	I_O (A)	@ $T_{(C)}$ (°C)	I_{TM} (A)	I_{TSM} 50 Hz (A)	I_{TSM} 60 Hz (A)	$R_{\theta JC(DC)}$ (°C/W)	Notes	Fax-on-Demand
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Single Phase Controlled Bridge

PACE-Pak

P104	P104W	P104KW	100	25	85	10	300	315	0.56	2 21 22	ckt 0
P101	P101W	P101KW	400	25	85	10	300	315	0.56	2 21 22	ckt 0
P102	P102W	P102KW	600	25	85	10	300	315	0.56	2 21 22	ckt 0
P103	P103W	P103KW	800	25	85	10	300	315	0.56	2 21 22	ckt 0
P105	P105W	P105KW	1200	25	85	10	300	315	0.56	2 21 22	ckt 0
P404	P404W	P404KW	100	40	85	20	325	340	0.263	2 21 22	ckt 0
P401	P401W	P401KW	400	40	85	20	325	340	0.263	2 21 22	ckt 0
P402	P402W	P402KW	600	40	85	20	325	340	0.263	2 21 22	ckt 0
P403	P403W	P403KW	800	40	85	20	325	340	0.263	2 21 22	ckt 0
P405	P405W	P405KW	1200	40	85	20	325	340	0.263	2 21 22	ckt 0
P124			100	25	85	10	300	315	0.56	2 21 22	ckt 2
P121			400	25	85	10	300	315	0.56	2 21 22	ckt 2

NOTES:

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|--|--|---|---|
| <p>1 Available on tape-and-reel. Refer to case outline.</p> <p>2 For I_{TSM}: 100% VRRM reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$</p> <p>3 For I_{gt}, V_{gt}: $T_j = 25^\circ\text{C}$</p> <p>4 V_{tm} @ $\pi \times I_t(AV)$, $T_j = 125^\circ\text{C}$</p> <p>5 dv/dt exponential to 0.67 VDRM. $T_j = 25^\circ\text{C}$</p> <p>6 Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.</p> <p>7 dv/dt linear to 0.8 VdrM; $T_j = 125^\circ\text{C}$</p> | <p>8 dv/dt exponential to 100% VDRM; $T_j = 125^\circ\text{C}$</p> <p>9 V_{tm} measured at $T_j = T_j \text{ max}$</p> <p>10 Max $T_j = 150^\circ\text{C}$</p> <p>11 Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V</p> <p>12 Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40</p> <p>13 Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40</p> | <p>14 DC operation, double side cooled</p> <p>15 dv/dt exponential to 0.67; $T_j = 125^\circ\text{C}$</p> <p>16 Available with flag terminal. To order, change last '0' to '2' in part number, e.g. ST180S04P2V</p> <p>17 Available without auxiliary cathode. Refer to case outline for details.</p> <p>18 Available in center tap (circuit common anode or circuit common cathode) configurations. Refer to case outline for details.</p> | <p>19 Available with spacers and longer terminal screws. Refer to case outline for details.</p> <p>20 RMS isolation voltage = 3000V - 50Hz</p> <p>21 RMS isolation voltage = 2500V - 50Hz</p> <p>22 Value given for R_{thJC} is per module.</p> <p>24 RMS isolation voltage = 4000V - 50Hz</p> <p>25 RMS isolation voltage = 3500 - 50Hz</p> |
|--|--|---|---|

Phase Control SCR

Part Number	VRRM VDRM (V)	I_o (A)	@ T_c (°C)	I_{TM} (A)	I_{TSM} 50 Hz (A)	I_{TSM} 60 Hz (A)	$R_{\theta JC}(DC)$ (°C/W)	Notes	Fax-on-Demand
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Single Phase Controlled Bridge

PACE-Pak

P122	600	25	85	10	300	315	0.56	2 21 22	ckt 2
P123	800	25	85	10	300	315	0.56	2 21 22	ckt 2
P125	1200	25	85	10	300	315	0.56	2 21 22	ckt 2
P424	100	40	85	20	325	340	0.263	2 21 22	ckt 2
P421	400	40	85	20	325	340	0.263	2 21 22	ckt 2
P422	600	40	85	20	325	340	0.263	2 21 22	ckt 2
P423	800	40	85	20	325	340	0.263	2 21 22	ckt 2
P425	1200	40	85	20	325	340	0.263	2 21 22	ckt 2
P134	100	25	85	10	300	315	0.56	2 21 22	ckt 3
P131	400	25	85	10	300	315	0.56	2 21 22	ckt 3
P132	600	25	85	10	300	315	0.56	2 21 22	ckt 3
P133	800	25	85	10	300	315	0.56	2 21 22	ckt 3
P135	1200	25	85	10	300	315	0.56	2 21 22	ckt 3

NOTES:

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|---|--|--|--|
| 1 Available on tape-and-reel. Refer to case outline. | 8 dv/dt exponential to 100% VDRM; $T_j = 125^\circ\text{C}$ | 14 DC operation, double side cooled | 19 Available with spacers and longer terminal screws. Refer to case outline for details. |
| 2 For I_{TSM} : 100% VRRM reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$ | 9 V_{TM} measured at $T_j = T_j \text{ max}$ | 15 dv/dt exponential to 0.67; $T_j = 125^\circ\text{C}$ | 20 RMS isolation voltage = 3000V - 50Hz |
| 3 For I_{GT} , V_{GT} : $T_j = 25^\circ\text{C}$ | 10 Max $T_j = 150^\circ\text{C}$ | 16 Available with flag terminal. To order, change last '0' to '2' in part number, e.g. ST180S04P2V | 21 RMS isolation voltage = 2500V - 50Hz |
| 4 V_{TM} @ $\pi \times I_t(AV)$, $T_j = 125^\circ\text{C}$ | 11 Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V | 17 Available without auxiliary cathode. Refer to case outline for details. | 22 Value given for R_{thJC} is per module. |
| 5 dv/dt exponential to 0.67 VDRM. $T_j = 25^\circ\text{C}$ | 12 Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40 | 18 Available in center tap (circuit common anode or circuit common cathode) configurations. Refer to case outline for details. | 24 RMS isolation voltage = 4000V - 50Hz |
| 6 Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M. | 13 Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40 | | 25 RMS isolation voltage = 3500 - 50Hz |
| 7 dv/dt linear to 0.8 VdrM; $T_j = 125^\circ\text{C}$ | | | |

Phase Control SCR

Part Number	VRRM VDRM (V)	I_o (A)	@ T_c (°C)	I_{TM} (A)	I_{TSM} 50 Hz (A)	I_{TSM} 60 Hz (A)	$R_{\theta JC(DC)}$ (°C/W)	Notes	Fax-on-Demand
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Single Phase Controlled Bridge

PACE-Pak

P434	100	40	85	20	325	340	0.263	2 21 22	ckt 3
P431	400	40	85	20	325	340	0.263	2 21 22	ckt 3
P432	600	40	85	20	325	340	0.263	2 21 22	ckt 3
P433	800	40	85	20	325	340	0.263	2 21 22	ckt 3
P435	1200	40	85	20	325	340	0.263	2 21 22	ckt 3

NOTES:

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|---|--|---|---|
| <p>1 Available on tape-and-reel. Refer to case outline.</p> <p>2 For I_{TSM}: 100% VRRM reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$</p> <p>3 For I_{gt}, V_{gt}: $T_j = 25^\circ\text{C}$</p> <p>4 V_{tm} @ $\pi \times I_t(AV)$, $T_j = 125^\circ\text{C}$</p> <p>5 dv/dt exponential to 0.67 VDRM. $T_j = 25^\circ\text{C}$</p> <p>6 Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.</p> <p>7 dv/dt linear to 0.8 Vdrms; $T_j = 125^\circ\text{C}$</p> | <p>8 dv/dt exponential to 100% VDRM; $T_j = 125^\circ\text{C}$</p> <p>9 V_{tm} measured at $T_j = T_j \text{ max}$</p> <p>10 Max $T_j = 150^\circ\text{C}$</p> <p>11 Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V</p> <p>12 Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40</p> <p>13 Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40</p> | <p>14 DC operation, double side cooled</p> <p>15 dv/dt exponential to 0.67; $T_j = 125^\circ\text{C}$</p> <p>16 Available with flag terminal. To order, change last '0' to '2' in part number, e.g. ST180S04P2V</p> <p>17 Available without auxiliary cathode. Refer to case outline for details.</p> <p>18 Available in center tap (circuit common anode or circuit common cathode) configurations. Refer to case outline for details.</p> | <p>19 Available with spacers and longer terminal screws. Refer to case outline for details.</p> <p>20 RMS isolation voltage = 3000V - 50Hz</p> <p>21 RMS isolation voltage = 2500V - 50Hz</p> <p>22 Value given for R_{thJC} is per module.</p> <p>24 RMS isolation voltage = 4000V - 50Hz</p> <p>25 RMS isolation voltage = 3500 - 50Hz</p> |
|---|--|---|---|

Phase Control SCR

Part Number	VRRM VDRM (V)	$I_{T(RM)}$ (A)	@ T_C (°C)	V_{TM} (V)	@ I_{TM} (A)	I_{TSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC(DC)}$ (°C/W)	Notes	Fax-on-Demand
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AC Controllers

INT-A-Pak
INT-A-Pak

54MT80K	800	50	80	2.7	150	330	345	0.187	2 21 24	87114
54MT100K	1000	50	80	2.7	150	330	345	0.187	2 21 24	87114
54MT120K	1200	50	80	2.7	150	330	345	0.187	2 21 24	87114
54MT140K	1400	50	80	2.7	150	330	345	0.187	2 21 24	87114
54MT160K	1600	50	80	2.7	150	330	345	0.187	2 21 24	87114
94MT80K	800	90	80	1.6	150	800	840	0.137	2 21 24	87114
94MT100K	1000	90	80	1.6	150	800	840	0.137	2 21 24	87114
94MT120K	1200	90	80	1.6	150	800	840	0.137	2 21 24	87114
94MT140K	1400	90	80	1.6	150	800	840	0.137	2 21 24	87114
94MT160K	1600	90	80	1.6	150	800	840	0.137	2 21 24	87114
104MT80K	800	100	80	1.5	150	950	1000	0.119	2 21 24	87114
104MT100K	1000	100	80	1.5	150	950	1000	0.119	2 21 24	87114
104MT120K	1200	100	80	1.5	150	950	1000	0.119	2 21 24	87114

NOTES:

- Available on tape-and-reel. Refer to case outline.
- For I_{TSM} : 100% VRRM reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$
- For I_{gt} , V_{gt} : $T_j = 25^\circ\text{C}$
- V_{tm} @ π X $I_t(AV)$, $T_j = 125^\circ\text{C}$
- dv/dt exponential to 0.67 VDRM. $T_j = 25^\circ\text{C}$
- Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.
- dv/dt linear to 0.8 Vdrm; $T_j = 125^\circ\text{C}$
- dv/dt exponential to 100% VDRM; $T_j = 125^\circ\text{C}$
- V_{tm} measured at $T_j = T_j \text{ max}$
- Max $T_j = 150^\circ\text{C}$
- Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V
- Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40
- Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40
- DC operation, double side cooled
- dv/dt exponential to 0.67; $T_j = 125^\circ\text{C}$
- Available with flag terminal. To order, change last '0' to '2' in part number, e.g. ST180S04P2V
- Available without auxiliary cathode. Refer to case outline for details.
- Available in center tap (circuit common anode or circuit common cathode) configurations. Refer to case outline for details.
- Available with spacers and longer terminal screws. Refer to case outline for details.
- RMS isolation voltage = 3000V - 50Hz
- RMS isolation voltage = 2500V - 50Hz
- Value given for R_{thJC} is per module.
- RMS isolation voltage = 4000V - 50Hz
- RMS isolation voltage = 3500 - 50Hz

Phase Control SCR

Part Number	VRRM VDRM (V)	$I_{T(RM)}$ (A)	@ $T_{(C)}$ (°C)	V_{TM} (V)	@ I_{TM} (A)	I_{TSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC(DC)}$ (°C/W)	Notes	Fax-on-Demand
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AC Controllers

INT-A-Pak

104MT140K	1400	100	80	1.5	150	950	1000	0.119	2 21 24	87114
104MT160K	1600	100	80	1.5	150	950	1000	0.119	2 21 24	87114

NOTES:

- Available on tape-and-reel. Refer to case outline.
- For I_{TSM} : 100% VRRM reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$
- For I_{gt} , V_{gt} : $T_j = 25^\circ\text{C}$
- V_{tm} @ $\pi \times I_t(AV)$, $T_j = 125^\circ\text{C}$
- dv/dt exponential to 0.67 VDRM. $T_j = 25^\circ\text{C}$
- Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.
- dv/dt linear to 0.8 VdrM; $T_j = 125^\circ\text{C}$
- dv/dt exponential to 100% VDRM; $T_j = 125^\circ\text{C}$
- V_{tm} measured at $T_j = T_j \text{ max}$
- Max $T_j = 150^\circ\text{C}$
- Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V
- Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40
- Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40
- DC operation, double side cooled
- dv/dt exponential to 0.67; $T_j = 125^\circ\text{C}$
- Available with flag terminal. To order, change last '0' to '2' in part number, e.g. ST180S04P2V
- Available without auxiliary cathode. Refer to case outline for details.
- Available in center tap (circuit common anode or circuit common cathode) configurations. Refer to case outline for details.
- Available with spacers and longer terminal screws. Refer to case outline for details.
- RMS isolation voltage = 3000V - 50Hz
- RMS isolation voltage = 2500V - 50Hz
- Value given for R_{thJC} is per module.
- RMS isolation voltage = 4000V - 50Hz
- RMS isolation voltage = 3500 - 50Hz

Phase Control SCR

3-Phase Positive Controlled Bridge	3-Phase Negative Controlled Bridge	3-Phase Fully Controlled Bridge	VRRM VDRM (V)	$I_{O(DC)}$ @ $T_{(C)}$ (A) (°C)	V_{TM} (V)	I_{TSM} 50 Hz 60 Hz (A) (A)	$R_{\theta JC(DC)}$ (°C/W)	Notes	Fax-on-Demand
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3-Phase Controlled Bridges

INT-A-Pak
INT-A-Pak

52MT80K	51MT80K	53MT80K	800	55	85	2.7	330	345	0.179	2 22 24	87113
52MT100K	51MT100K	53MT100K	1000	55	85	2.7	330	345	0.179	2 22 24	87113
52MT120K	51MT120K	53MT120K	1200	55	85	2.7	330	345	0.179	2 22 24	87113
52MT140K	51MT140K	53MT140K	1400	55	85	2.7	330	345	0.179	2 22 24	87113
52MT160K	51MT160K	53MT160K	1600	55	85	2.7	330	345	0.179	2 22 24	87113
92MT80K	91MT80K	93MT80K	800	90	85	1.7	800	840	0.144	2 22 24	87113
92MT100K	91MT100K	93MT100K	1000	90	85	1.7	800	840	0.144	2 22 24	87113
92MT120K	91MT120K	93MT120K	1200	90	85	1.7	800	840	0.144	2 22 24	87113
92MT140K	91MT140K	93MT140K	1400	90	85	1.7	800	840	0.144	2 22 24	87113
92MT160K	92MT160K	93MT160K	1600	90	85	1.7	800	840	0.144	2 22 24	87113
112MT80K	111MT80K	113MT80K	800	110	95	1.6	950	1000	0.117	2 22 24	87113
112MT100K	111MT100K	113MT100K	1000	110	95	1.6	950	1000	0.117	2 22 24	87113
112MT120K	111MT120K	113MT120K	1200	110	95	1.6	950	1000	0.117	2 22 24	87113

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| <p>1 Available on tape-and-reel. Refer to case outline.</p> <p>2 For I_{TSM}: 100% VRRM reapplied, $T_j = T_j \text{ max.} = 125^\circ\text{C}$</p> <p>3 For I_{gt}, V_{gt}: $T_j = 25^\circ\text{C}$</p> <p>4 V_{tm} @ $\pi \times I_t(AV)$, $T_j = 125^\circ\text{C}$</p> <p>5 dv/dt exponential to 0.67 VDRM. $T_j = 25^\circ\text{C}$</p> <p>6 Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.</p> <p>7 dv/dt linear to 0.8 VdrM; $T_j = 125^\circ\text{C}$</p> | <p>8 dv/dt exponential to 100% VDRM; $T_j = 125^\circ\text{C}$</p> <p>9 V_{tm} measured at $T_j = T_j \text{ max}$</p> <p>10 Max $T_j = 150^\circ\text{C}$</p> <p>11 Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V</p> <p>12 Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40</p> <p>13 Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40</p> | <p>14 DC operation, double side cooled</p> <p>15 dv/dt exponential to 0.67; $T_j = 125^\circ\text{C}$</p> <p>16 Available with flag terminal. To order, change last '0' to '2' in part number, e.g. ST180S04P2V</p> <p>17 Available without auxiliary cathode. Refer to case outline for details.</p> <p>18 Available in center tap (circuit common anode or circuit common cathode) configurations. Refer to case outline for details.</p> | <p>19 Available with spacers and longer terminal screws. Refer to case outline for details.</p> <p>20 RMS isolation voltage = 3000V - 50Hz</p> <p>21 RMS isolation voltage = 2500V - 50Hz</p> <p>22 Value given for R_{thJC} is per module.</p> <p>24 RMS isolation voltage = 4000V - 50Hz</p> <p>25 RMS isolation voltage = 3500 - 50Hz</p> |
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Phase Control SCR

3-Phase Positive Controlled Bridge	3-Phase Negative Controlled Bridge	3-Phase Fully Controlled Bridge	VRRM VDRM (V)	$I_{O(DC)}$ (A)	$@T_{(C)}$ (°C)	V_{TM} (V)	I_{TSM} 50 Hz (A)	60 Hz (A)	$R_{\theta JC(DC)}$ (°C/W)	Notes	Fax-on-Demand
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3-Phase Controlled Bridges

										INT-A-Pak	
112MT140K	111MT140K	113MT140K	1400	110	95	1.6	950	1000	0.117	2 22 24	87113
112MT160K	111MT160K	113MT160K	1600	110	95	1.6	950	1000	0.117	2 22 24	87113

NOTES:

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| <p>1 Available on tape-and-reel. Refer to case outline.</p> <p>2 For I_{TSM}: 100% VRRM reapplied, $T_j = T_{j \max} = 125^\circ\text{C}$</p> <p>3 For I_{gt}, V_{gt}: $T_j = 25^\circ\text{C}$</p> <p>4 V_{tm} @ π X $I_t(AV)$, $T_j = 125^\circ\text{C}$</p> <p>5 dv/dt exponential to 0.67 VDRM. $T_j = 25^\circ\text{C}$</p> <p>6 Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M.</p> <p>7 dv/dt linear to 0.8 VdrM; $T_j = 125^\circ\text{C}$</p> | <p>8 dv/dt exponential to 100% VDRM; $T_j = 125^\circ\text{C}$</p> <p>9 V_{tm} measured at $T_j = T_{j \max}$</p> <p>10 Max $T_j = 150^\circ\text{C}$</p> <p>11 Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V</p> <p>12 Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40</p> <p>13 Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40</p> | <p>14 DC operation, double side cooled</p> <p>15 dv/dt exponential to 0.67; $T_j = 125^\circ\text{C}$</p> <p>16 Available with flag terminal. To order, change last '0' to '2' in part number, e.g. ST180S04P2V</p> <p>17 Available without auxiliary cathode. Refer to case outline for details.</p> <p>18 Available in center tap (circuit common anode or circuit common cathode) configurations. Refer to case outline for details.</p> | <p>19 Available with spacers and longer terminal screws. Refer to case outline for details.</p> <p>20 RMS isolation voltage = 3000V - 50Hz</p> <p>21 RMS isolation voltage = 2500V - 50Hz</p> <p>22 Value given for R_{thJC} is per module.</p> <p>24 RMS isolation voltage = 4000V - 50Hz</p> <p>25 RMS isolation voltage = 3500 - 50Hz</p> |
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