



Micro Commercial Components



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KBJ4005G THRU KBJ410G

**4 Amp
GLASS PASSIVATED
BRIDGE RECTIFIERS
50 to 1000 Volts**

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Lead Free Finish/RoHS Compliant (NOTE 1) ("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

- Operating Junction Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989
- Mounting Torque: 5.0 in-lbs Maximum

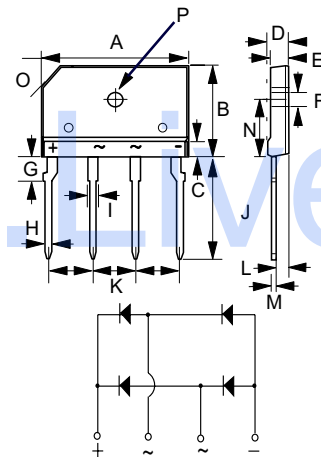
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
KBJ4005G	KBJ4005G	50V	35V	50V
KBJ401G	KBJ401G	100V	70V	100V
KBJ402G	KBJ402G	200V	140V	200V
KBJ404G	KBJ404G	400V	280V	400V
KBJ406G	KBJ406G	600V	420V	600V
KBJ408G	KBJ408G	800V	560V	800V
KBJ410G	KBJ410G	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	4.0A	$T_C = 100^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	150A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_F	1.0V	$I_{FM} = 2.0\text{A per element}; T_A = 25^\circ\text{C (Note 2)}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10 μA 500 μA	$T_A = 25^\circ\text{C}$ $T_C = 100^\circ\text{C}$
I^2t Rating for fusing	I^2t	93A ² S	(t<8.3ms)

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7
2. Pulse Test: Pulse Width 300usec, Duty Cycle 1%

KBJ



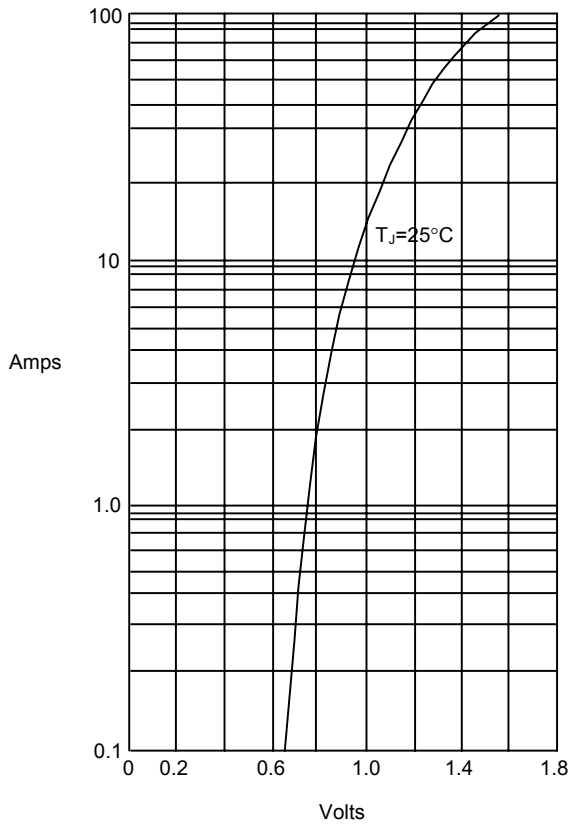
Case Type

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.976	.992	24.80	25.20	
B	.579	.602	14.70	15.30	
C	.154	.161	3.90	4.10	
D	.173	.189	4.40	4.80	
E	.134	.150	3.40	3.80	
F	.122	.134	3.10	3.40	∅
G	.130	.146	3.30	3.70	
H	.035	.043	0.90	1.10	
I	.059	.075	1.50	1.90	
J	.669	.709	17.00	18.00	
K	.287	.303	7.30	7.70	
L	.098	.114	2.50	2.90	
M	.024	.031	0.60	0.80	
N	.366	.381	9.30	9.70	
O	.118x45°		3.0x45°		
P	.122	.134	3.10	3.40	∅

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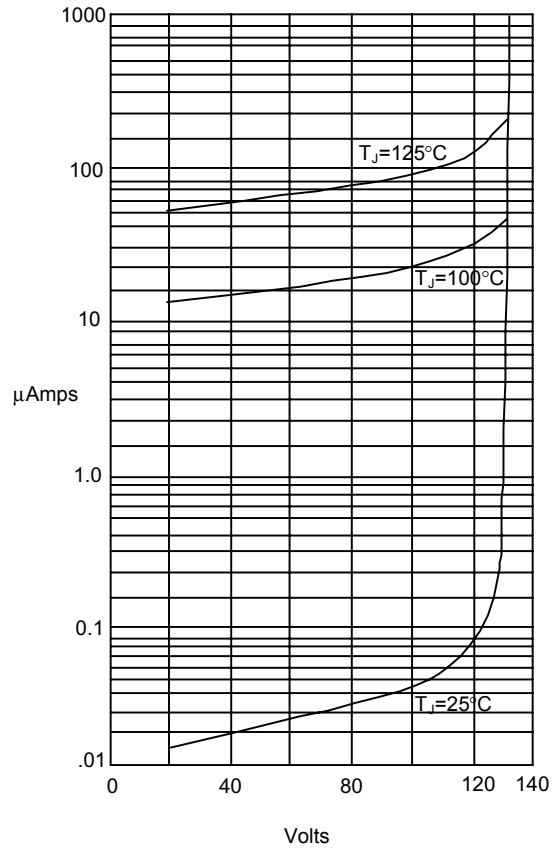
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Figure 1
Typical Forward Characteristics



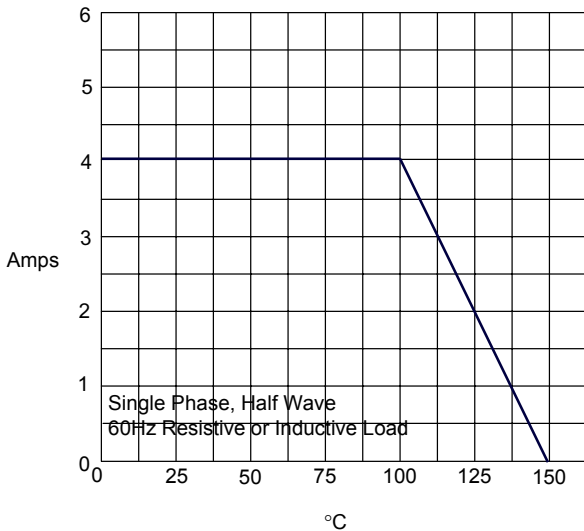
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



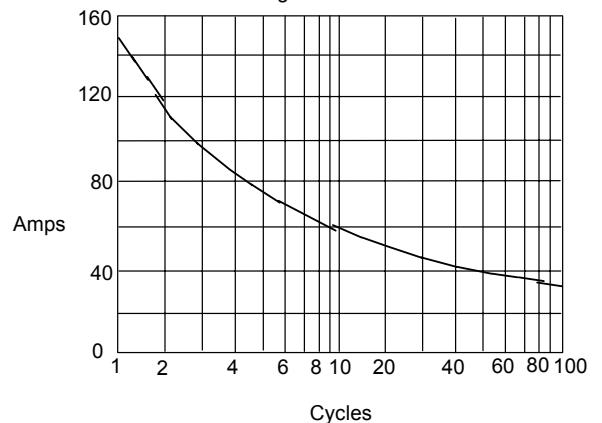
Instantaneous Reverse Leakage Current - MicroAmperes versus
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



Average Forward Rectified Current - Amperes versus
Ambient Temperature - °C

Figure 4
Peak Forward Surge Current



Peak Forward Surge Current - Amperes versus
Number Of Cycles At 60Hz - Cycles



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Ordering Information

Device	Packing
(Part Number)-BP	Bulk;1K/Box

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