



Micro Commercial Components



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KBJ10005G THRU KBJ1010G

10 Amp GLASS PASSIVATED BRIDGE RECTIFIERS 50 to 1000 Volts

Features

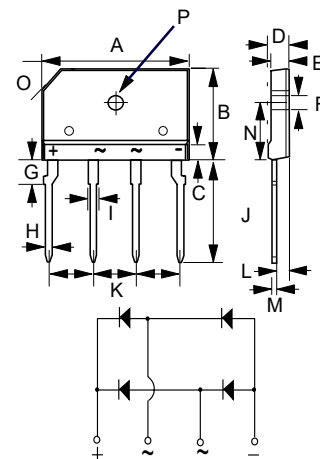
- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (NOTE 1) ("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

- Operating Junction Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
KBJ10005G	KBJ10005G	50V	35V	50V
KBJ1001G	KBJ1001G	100V	70V	100V
KBJ1002G	KBJ1002G	200V	140V	200V
KBJ1004G	KBJ1004G	400V	280V	400V
KBJ1006G	KBJ1006G	600V	420V	600V
KBJ1008G	KBJ1008G	800V	560V	800V
KBJ1010G	KBJ1010G	1000V	700V	1000V

KBJ



Case Type

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	10A	$T_C = 100^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	170A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_F	1.1V	$I_{FM} = 5.0\text{A}$ per element; $T_A = 25^\circ\text{C}$ (Note 2)
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5 μA 500 μA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
I^2t Rating for fusing	I^2t	120A 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%

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	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	.413	9.30	10.50	
O	.118X45°		3.0X45°		
P	.122	.134	3.10	3.40	∅

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Rating and characteristic curves

Figure1
Surge Forward Current Capability

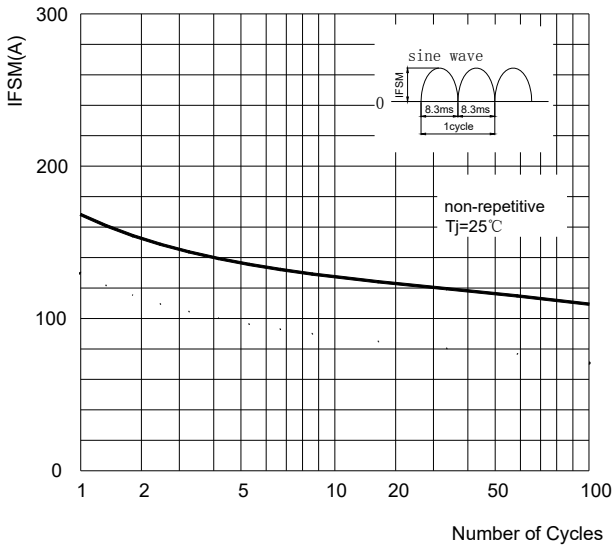


Figure2
Derating Curve Output Rectified Current

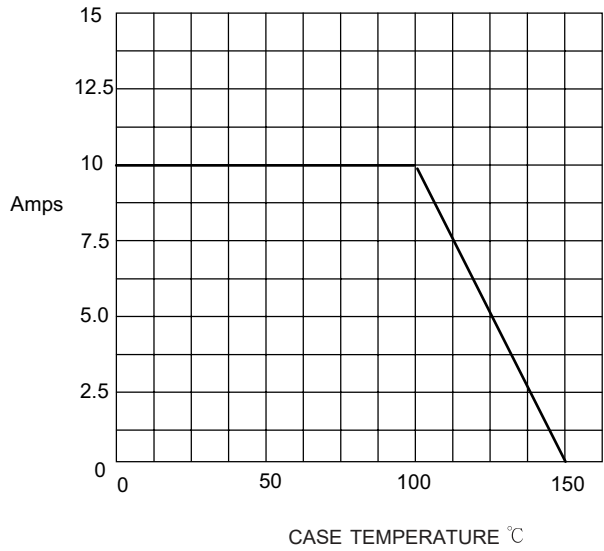
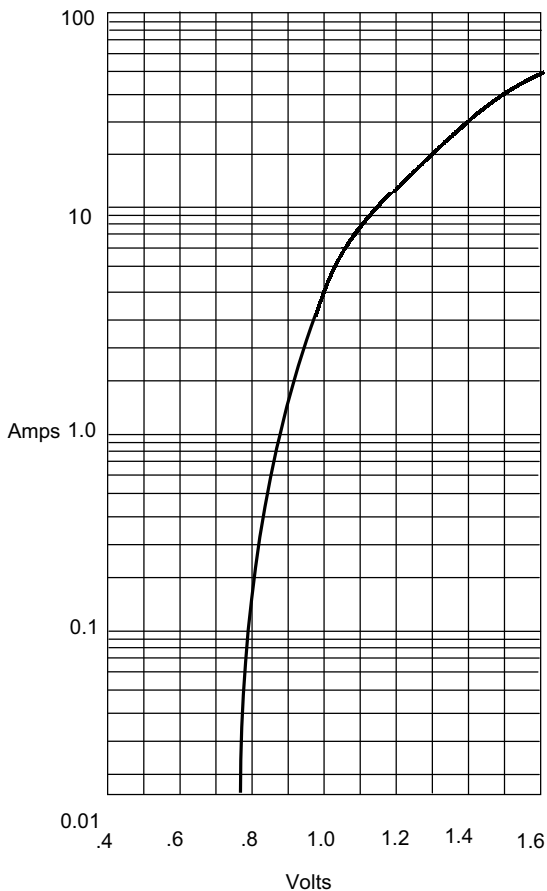
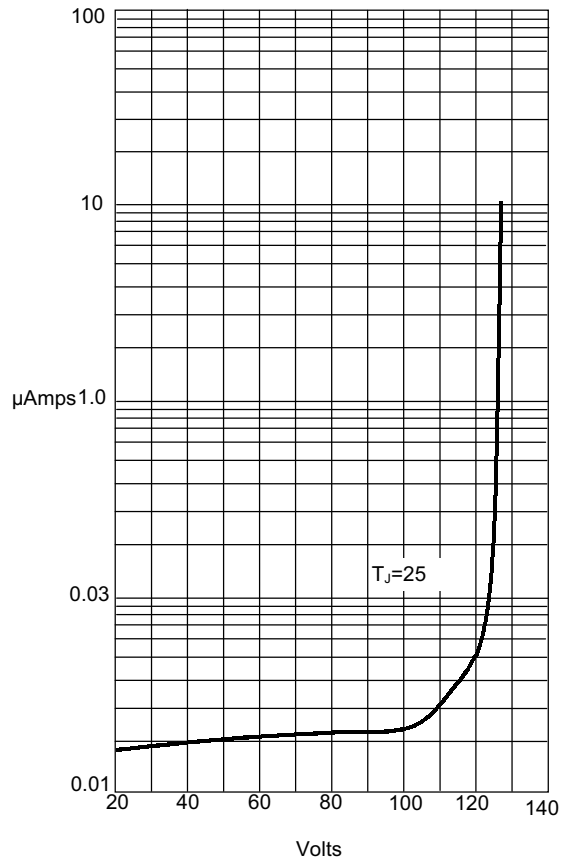


Figure 3
Typical Forward Characteristics



Instantaneous Forward Current -Amperes versus
Instantaneous Forward Voltage - Volts

Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Current - MicroAmperes versus
Percent of Rated Peak Reverse Voltage - Volts(%)



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Ordering Information :

Device	Packing
Part Number-BP	Bulk: 15Pcs/Tube

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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