



E502650

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)
- Low Forward Voltage Drop and High Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 2.3°C/W Junction to Case

Mechanical Data

- Mounting Torque: 0.5 in-lbs Maximum

MCC Part 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

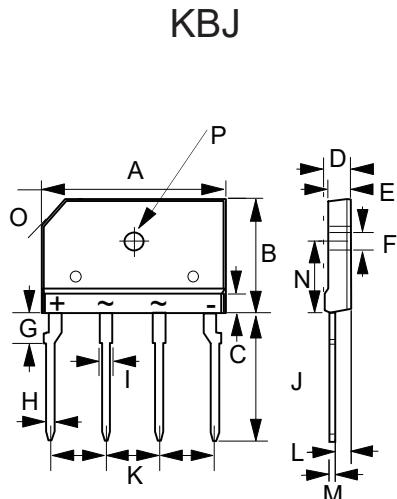
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	10A	$T_C = 100^\circ C$
Peak Forward Surge Current	I_{FSM}	170A	8.3ms, Half Sine
Maximum Forward Voltage Drop Per Element	V_F	1.0V	$I_{FM} = 5.0A$ Per Element; $T_J = 25^\circ C$ (Note 2)
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	5 μ A 500 μ A	$T_J = 25^\circ C$ $T_J = 125^\circ C$
I^2t Rating for Fusing	I^2t	120A ² S	$t < 8.3ms$

Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex Notes 7a

2. Pulse Test: Pulse Width 300usec, Duty Cycle 1%

10 Amp Glass Passivated Bridge Rectifiers 50 to 1000 Volts



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.976	0.992	24.80	25.20	
B	0.579	0.602	14.70	15.30	
C	0.154	0.161	3.90	4.10	
D	0.173	0.189	4.40	4.80	
E	0.134	0.150	3.40	3.80	
F	0.122	0.134	3.10	3.40	Φ
G	0.130	0.146	3.30	3.70	
H	0.035	0.043	0.90	1.10	
I	0.059	0.075	1.50	1.90	
J	0.669	0.709	17.00	18.00	
K	0.287	0.303	7.30	7.70	
L	0.098	0.114	2.50	2.90	
M	0.024	0.031	0.60	0.80	
N	0.366	0.413	9.30	10.50	
O	0.118 X 45°		3.0 X 45°		
P	0.122	0.134	3.10	3.40	Φ

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

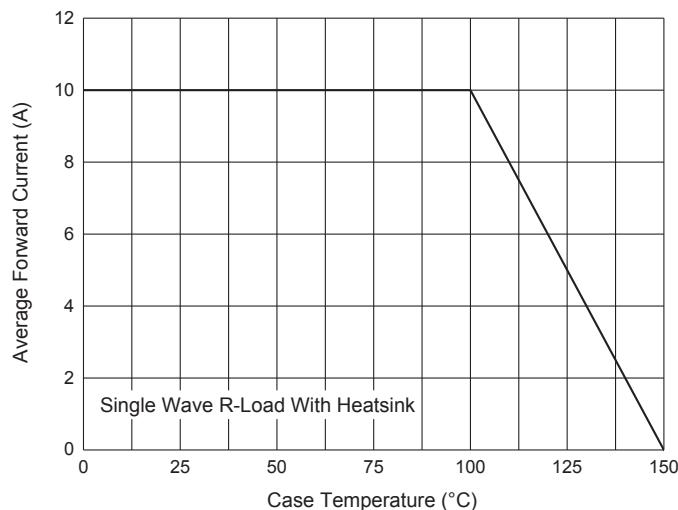


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

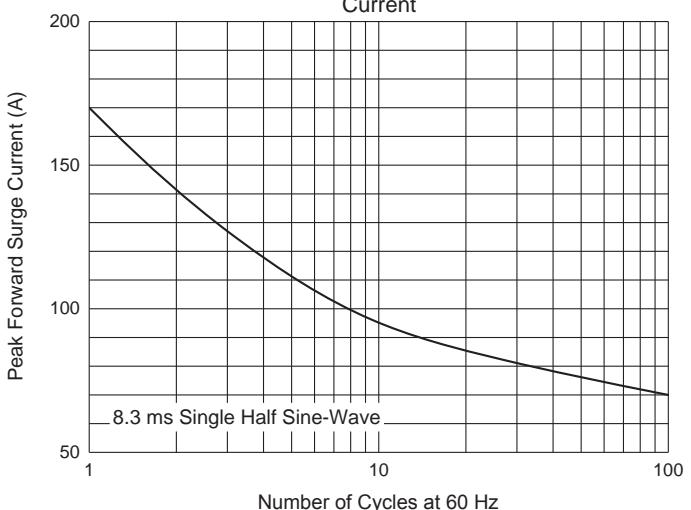


Fig. 3 - Typical Instantaneous Forward Characteristics

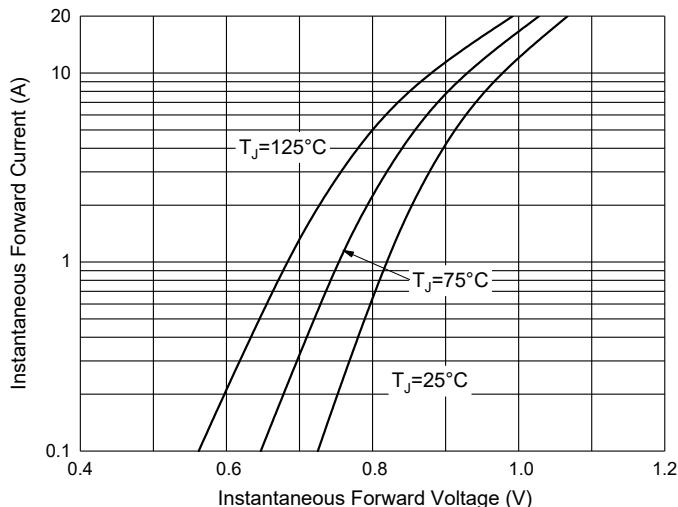
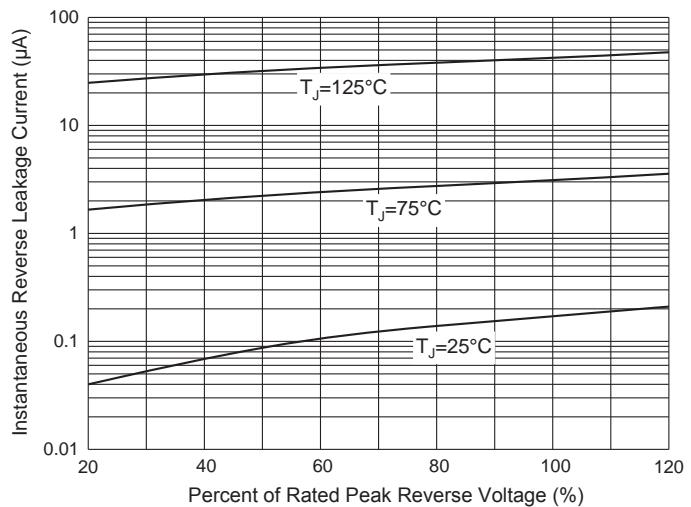


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-BP	Bulk:20pcs/Tube,1Kpcs/Box,2Kpcs/Carton

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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