

	E502650
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Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note 1) ("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: 5.5°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
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

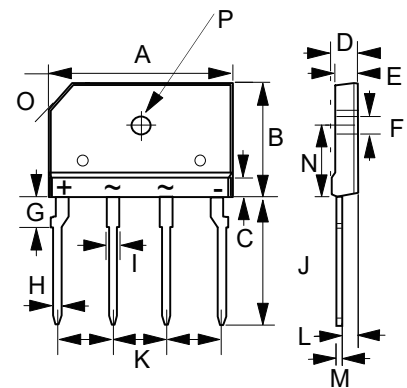
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	4.0A	$T_C = 110^\circ C$
Peak Forward Surge Current	I_{FSM}	150A	8.3ms, Half Sine
Maximum Forward Voltage Drop Per Element	V_F	1.0V	$I_{FM} = 2.0A$ Per Element; $T_J = 25^\circ C$ (Note 2)
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	5 μA 500 μA	$T_J = 25^\circ C$ $T_J = 125^\circ C$
I^2t Rating for Fusing	I^2t	93A ² S	$t < 8.3ms$
Dielectric Strength	V_{dis}	2KV	Terminals to Case, AC 1 Minute

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

**4 Amp
Glass Passivated
Bridge Rectifiers
50 to 1000 Volts**

KBJ



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	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

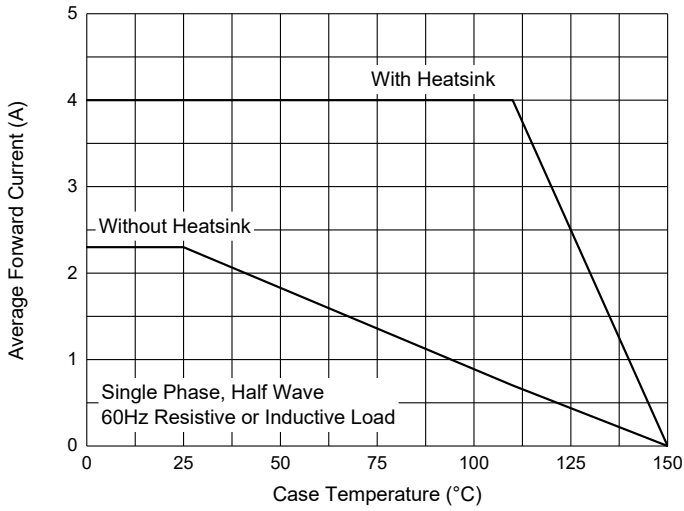


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

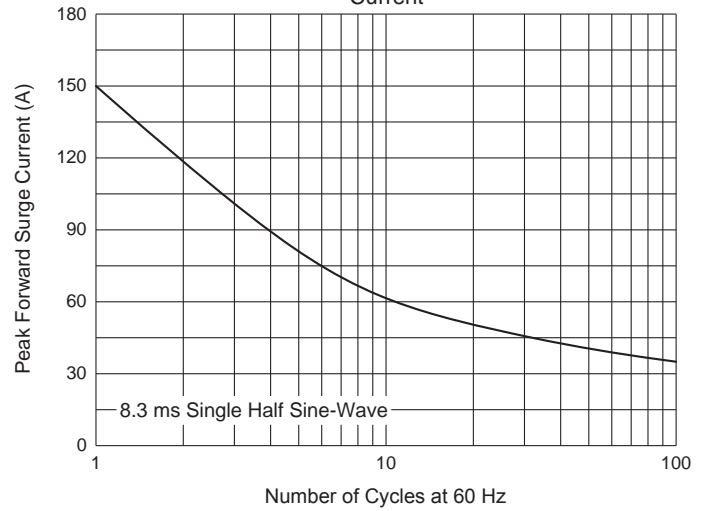


Fig. 3 - Typical Instantaneous Forward Characteristics

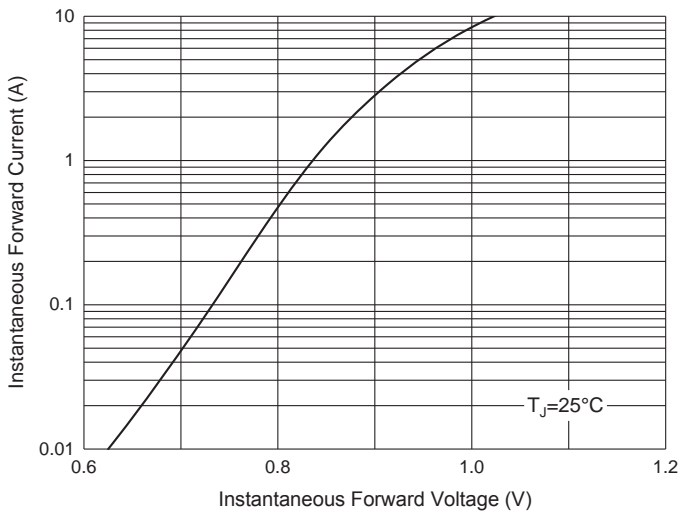
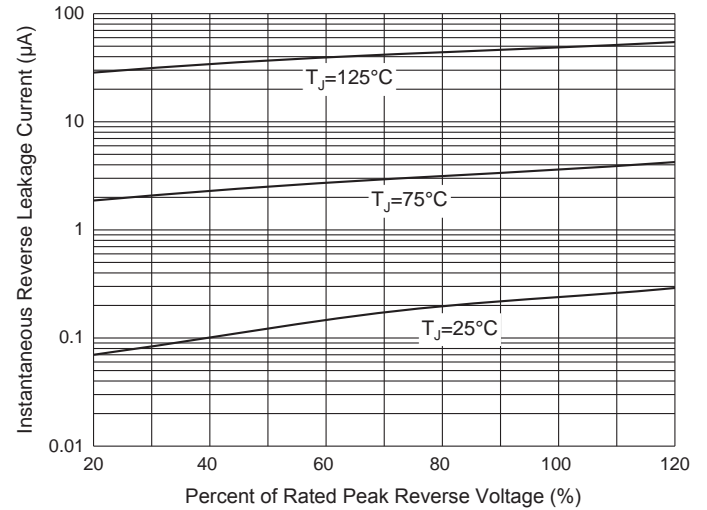


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-BP	Bulk:1K/Box

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

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