



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(Note 2): 1.5°C/W Junction to Case
- ESD Voltage: HBM: 4KV; MM: 400V; CDM: 800V

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
KBJ6005G	KBJ6005G	50V	35V	50V
KBJ601G	KBJ601G	100V	70V	100V
KBJ602G	KBJ602G	200V	140V	200V
KBJ604G	KBJ604G	400V	280V	400V
KBJ606G	KBJ606G	600V	420V	600V
KBJ608G	KBJ608G	800V	560V	800V
KBJ610G	KBJ610G	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

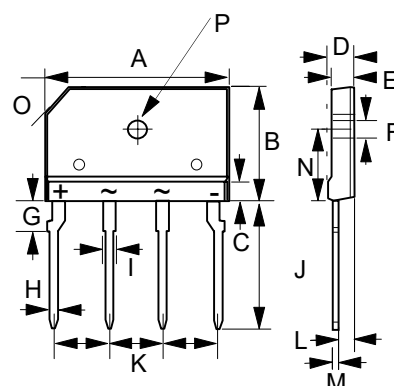
Maximum Average Forward Rectified Current @ $T_C=110^\circ\text{C}$	$I_{F(AV)}$	6.0A 2.8A	With Heatsink ^(Note 2) Without Heatsink
Peak Forward Surge Current	I_{FSM}	170A	8.3ms, Half Sine
Maximum Forward Voltage	V_F	1.0V	$I_{FM} = 3.0\text{A}; T_J = 25^\circ\text{C}$
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	5μA 500μA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
I^2t Rating for Fusing	I^2t	120A ² S	$t < 8.3\text{ms}$
Typical Junction Capacitance	C_J	80pF	Measured at $F=1.0\text{MHz}$ $V_R=4.0\text{V}$

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

2. Unit Mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.

6 Amp Glass Passivated Bridge Rectifiers 50 to 1000 Volts

KBJ



DIMENSIONS					
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

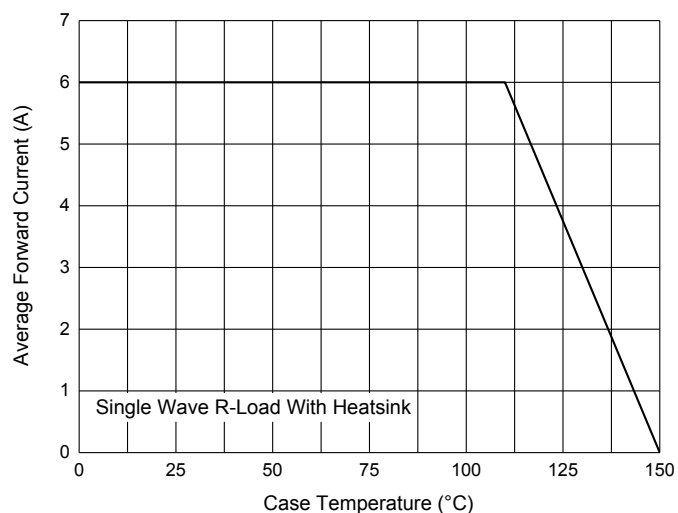


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

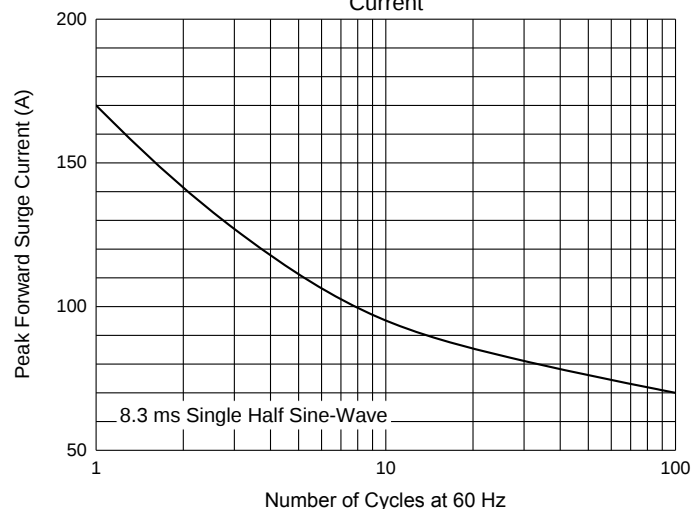


Fig. 3 - Typical Instantaneous Forward Characteristics

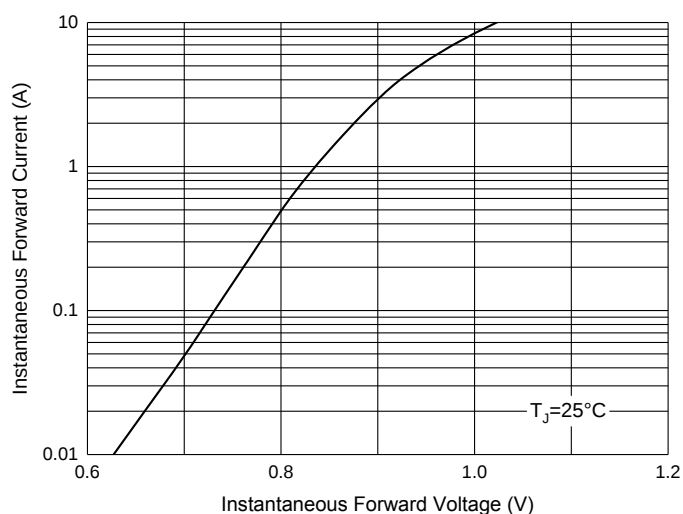
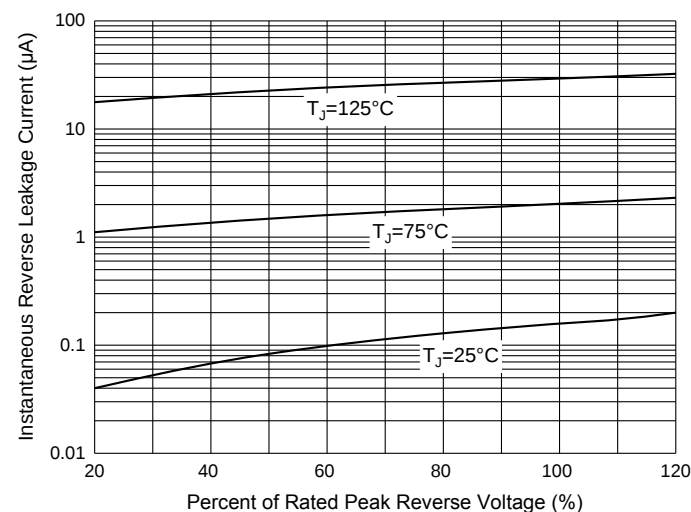


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

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

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

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