	E502650

4 Amp Glass Passivated Bridge Rectifiers 1000 Volts

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

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 3°C/W Junction to Case(Note2)

Mechanical Data

- Mounting Torque: 0.5 in-lbs Maximum

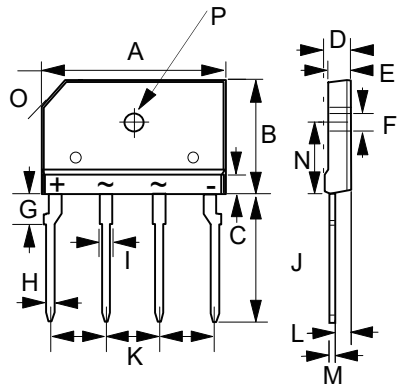
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
KBJ410GS	KBJ410GS	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	4A 2.6A	T_C= 125°C,With Heatsink T_A= 25°C,Without Heatsink
Peak Forward Surge Current	I_{FSM}	135A	8.3ms, Half Sine
Maximum Forward Voltage Drop Per Element	V_F	1.0V	I_{FM} = 2A Per Diode; T_J= 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5μA 100uA	T_J = 25°C T_J = 125°C
Dielecric Strength	V_{ISO}	2KV	Terminals to Case, AC 1 Minute
Rating for Fusing	I^2t	75.6A^2s	t<8.3ms
Typical Junction Capacitance	C_J	38 pF	Measured at 1.0MHz, V_R=4.0V

Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.
2. Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.
3. Pulse Test: Pulse Width 300usec, Duty Cycle 1%

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

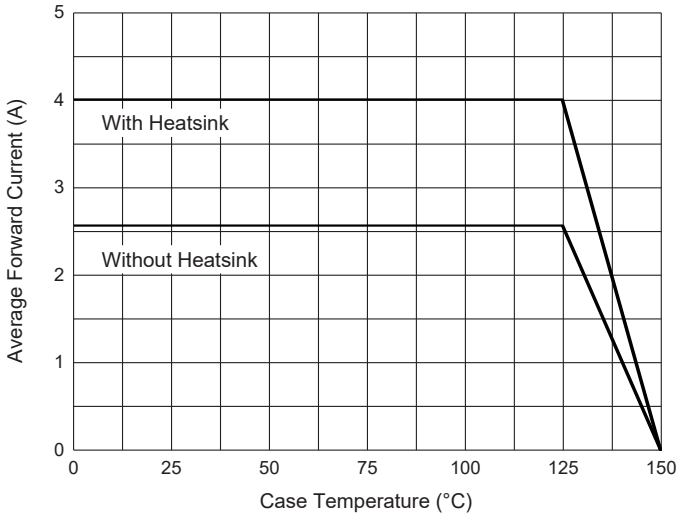


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

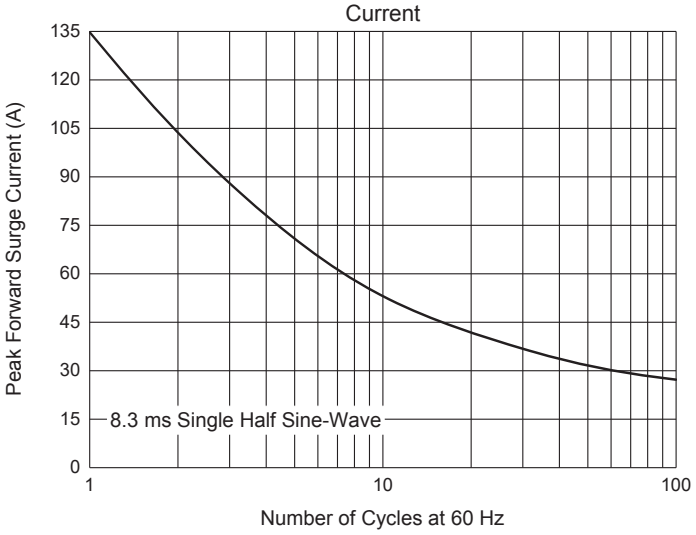


Fig. 3 - Typical Instantaneous Forward Characteristics

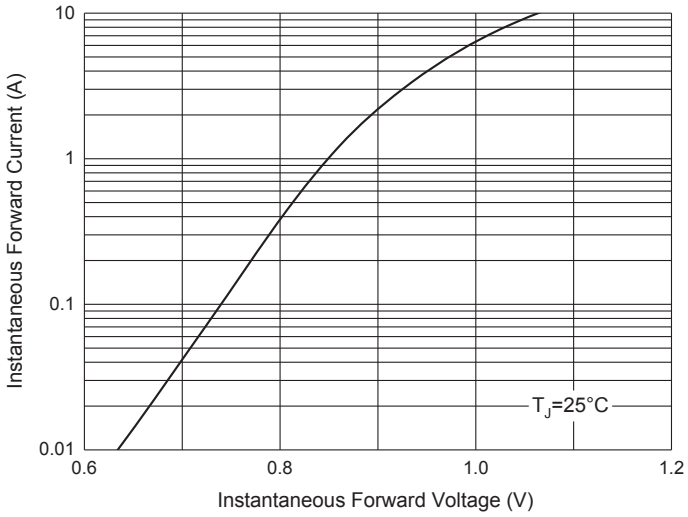
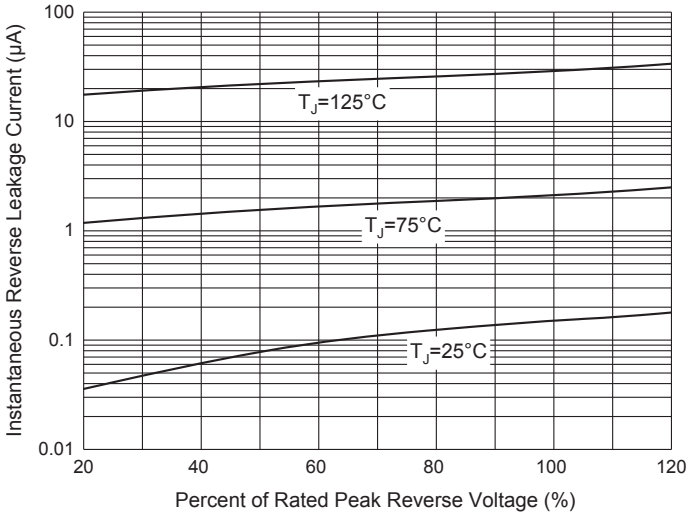


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

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

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

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