	E502650
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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, 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: 1.2°C/W Junction to Case (Note 2)
- Typical Thermal Resistance: 5.6°C/W Junction to Ambient (Note 2)

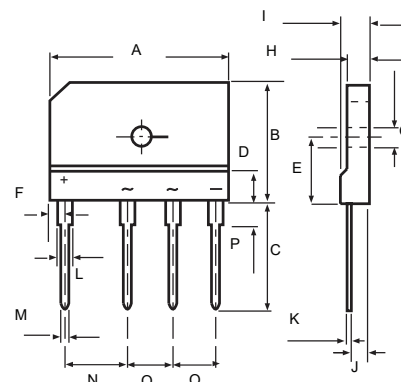
Mechanical Data

- Mounting Torque: 5in-lbs

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBJ2508L	GBJ2508L	800V	560V	800V

25 Amp Low VF Glass Passivated Bridge Rectifier 800 Volts

GBJ



Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	25A	$T_C = 87^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	550A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	V_F	0.88V(Typ) 0.92V(Max) 0.85V(Max)	$I_{FM} = 12.5A; T_J = 25^\circ\text{C}$ $I_{FM} = 12.5A; T_J = 25^\circ\text{C}$ $I_{FM} = 12.5A; T_J = 125^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5μA 500μA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
Rating for Fusing	I^2t	1255 A ² s	$t < 8.3\text{ms}$
Typical Junction Capacitance	C_J	270 pF	Measured at 1.0 MHz, $V_R = 4.0\text{V}$

DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	1.170	1.190	29.70	30.30	
B	0.780	0.800	19.70	20.30	
C	0.670	0.710	17.00	18.00	
D	0.190	0.190	4.70	4.90	
E	0.430	0.440	10.80	11.20	
F	0.090	0.110	2.30	2.70	
G	0.120	0.130	3.10	3.40	
H	0.130	0.150	3.40	3.80	
I	0.170	0.190	4.40	4.80	
J	0.100	0.110	2.50	2.90	
K	0.020	0.030	0.60	0.80	
L	0.080	0.090	2.00	2.40	
M	0.040	0.040	0.90	1.10	
N	0.390	0.400	9.80	10.20	
O	0.290	0.300	7.30	7.70	
P	0.150	0.170	3.80	4.20	

- 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.

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

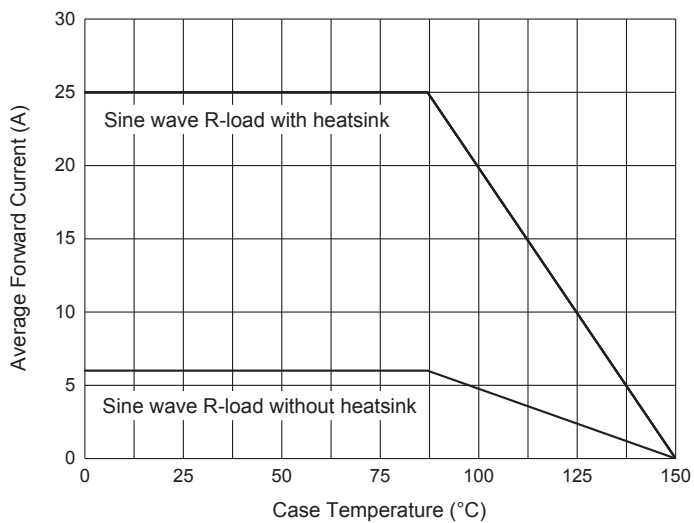


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

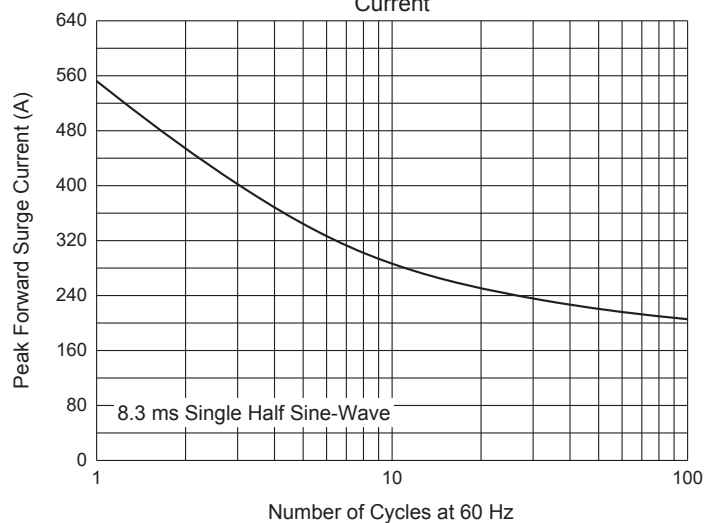


Fig. 3 - Typical Instantaneous Forward Characteristics

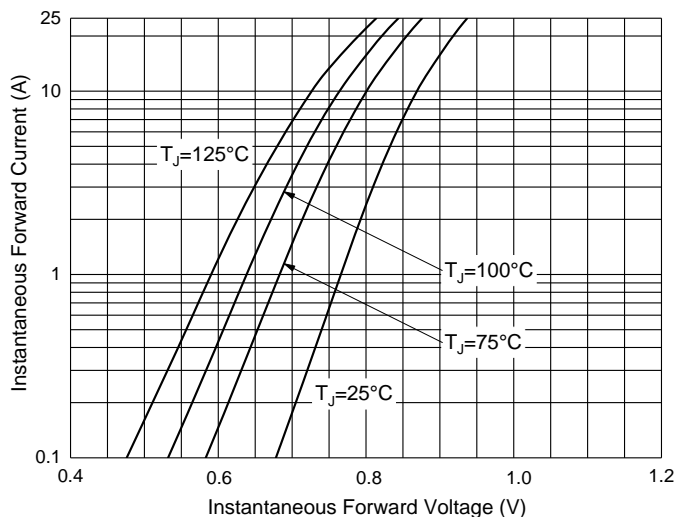
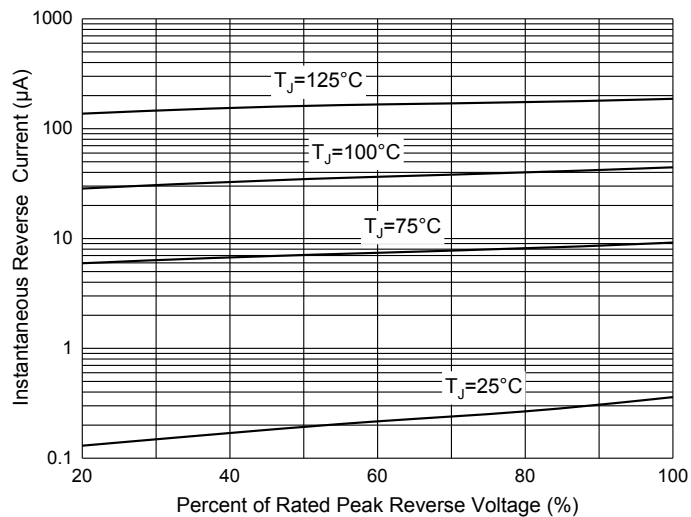


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-BP	Bulk:15pcs/Tube,750pcs/Box,1500pcs/Carton

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

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