	E502650

8 Amp Glass Passivated Bridge Rectifier 50 - 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)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- High Current Capability

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 1.6°C/W Junction to Case

Mechanical Data

- Mounting Torque: 5in-lbs

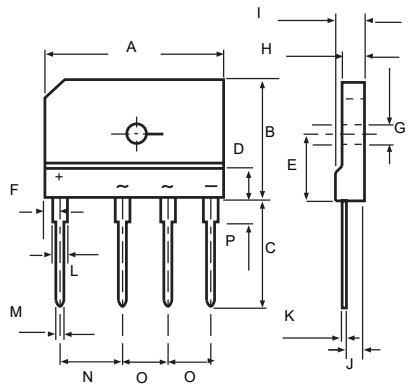
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBJ8005	GBJ8005	50V	35V	50V
GBJ801	GBJ801	100V	70V	100V
GBJ802	GBJ802	200V	140V	200V
GBJ804	GBJ804	400V	280V	400V
GBJ806	GBJ806	600V	420V	600V
GBJ808	GBJ808	800V	560V	800V
GBJ810	GBJ810	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	8A	T_C= 110°C
Peak Forward Surge Current	I_{FSM}	170A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	V_F	1.0V	I_{FM} = 4.0A;T_J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5μA 500μA	T_J = 25°C T_J = 125°C
Typical Junction Capacitance	C_J	55pF	Measured at 1.0MHz, V_R=4.0V
Rating for Fusing	I^2t	120 A^2s	t<8.3ms

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

GBJ



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
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	

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

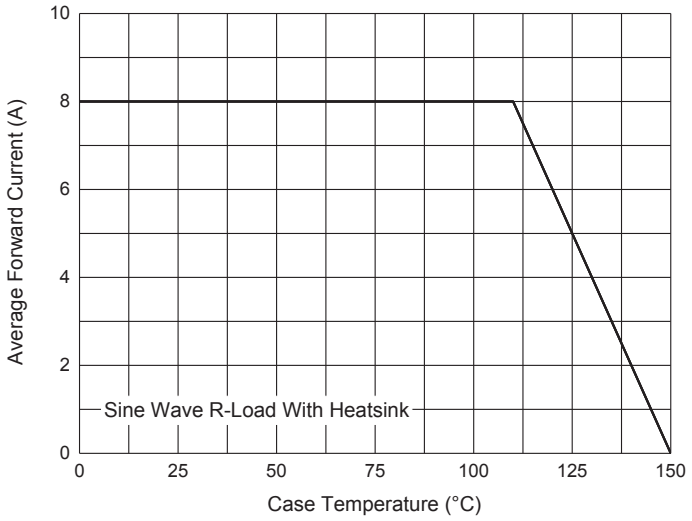


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

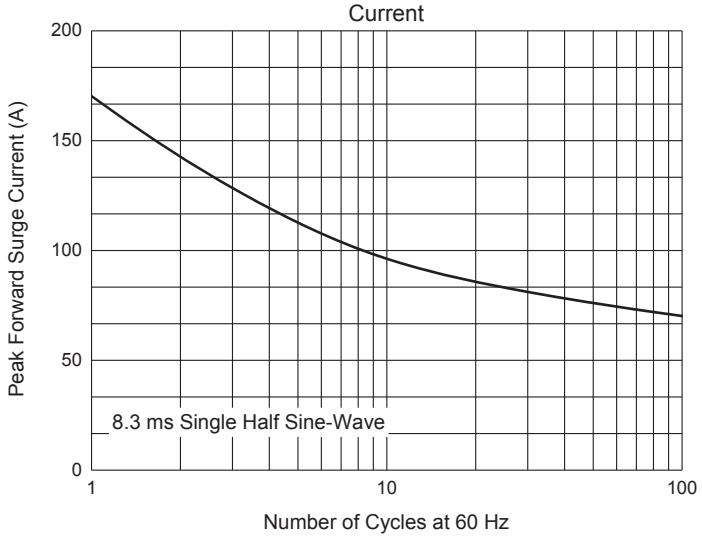


Fig. 3 - Typical Instantaneous Forward Characteristics

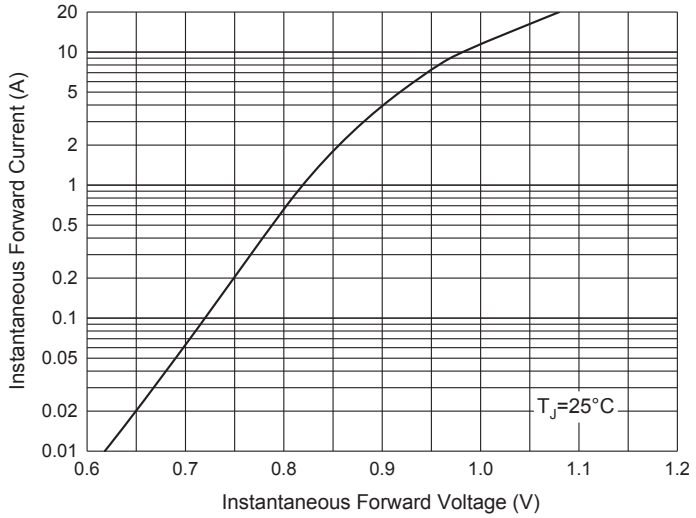
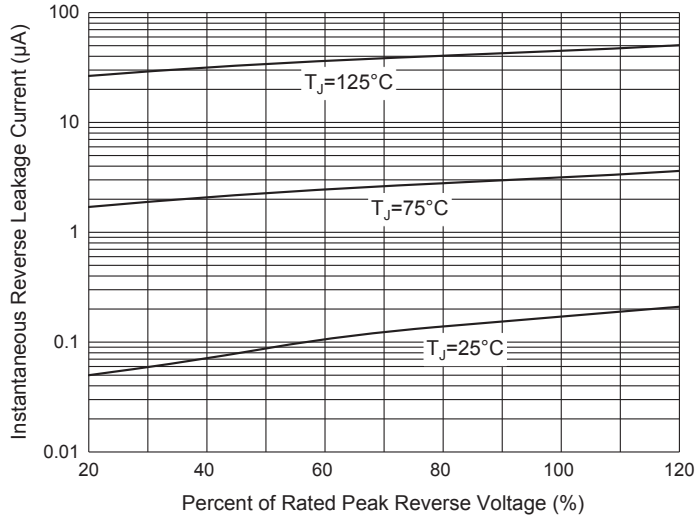


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-BP	Bulk: 750pcs/Box

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

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