

	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)
- Epoxy Meets UL 94 V-0 Flammability Rating
- High Case Dielectric Strength
- High Surge Current Capability

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance : 47°C/W Junction To Ambient
- Typical Thermal Resistance : 10°C/W Junction To Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBL2005	GBL2005	50V	35V	50V
GBL201	GBL201	100V	70V	100V
GBL202	GBL202	200V	140V	200V
GBL204	GBL204	400V	280V	400V
GBL206	GBL206	600V	420V	600V
GBL208	GBL208	800V	560V	800V
GBL210	GBL210	1000V	700V	1000V

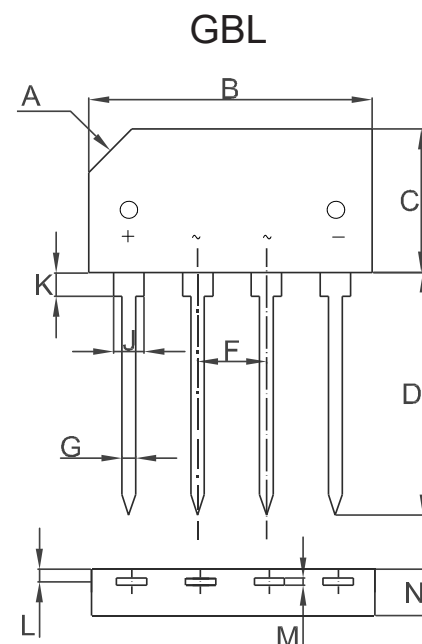
Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Average Forward Current	$I_{F(AV)}$	2.0A	$T_A = 25^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	80A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	V_F	1.05V	$I_{FM} = 1.0\text{A}; (\text{Note2})$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10 μA	$T_A = 25^\circ\text{C}$
Rating for Fusing	I^2t	26.6 A ² sec	1ms< t < 8.3ms

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

2. Pulse Measurement, Rating of Per Diode

2.0 Amp Glass Passivated Single-Phase Rectifiers 50 to 1000 Volts



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.118 X 0.118		3.0 X 3.0		X 45°
B	0.756	0.835	19.20	21.20	
C	0.413	0.453	10.50	11.50	
D	0.512	0.591	13.00	15.00	
F	0.193	0.201	4.90	5.10	
G	0.039	0.047	1.00	1.20	
J	0.047	0.071	1.20	1.80	
K	0.079	0.118	2.00	3.00	
L	0.035	0.043	0.90	1.10	
M	0.020	0.027	0.50	0.70	
N	0.118	0.157	3.00	4.00	

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

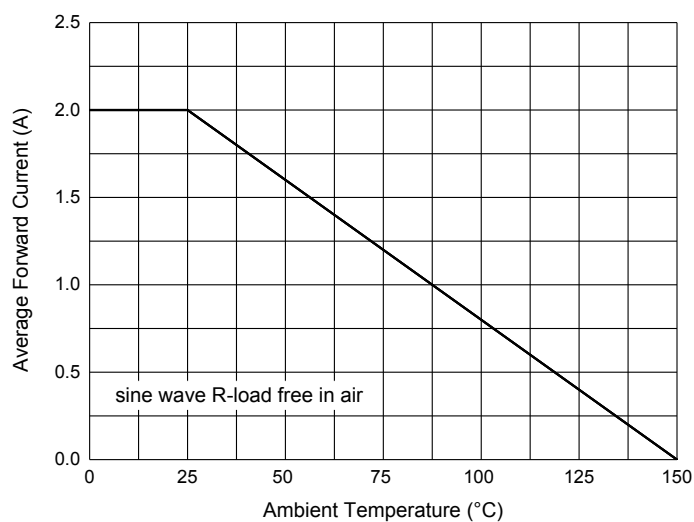


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

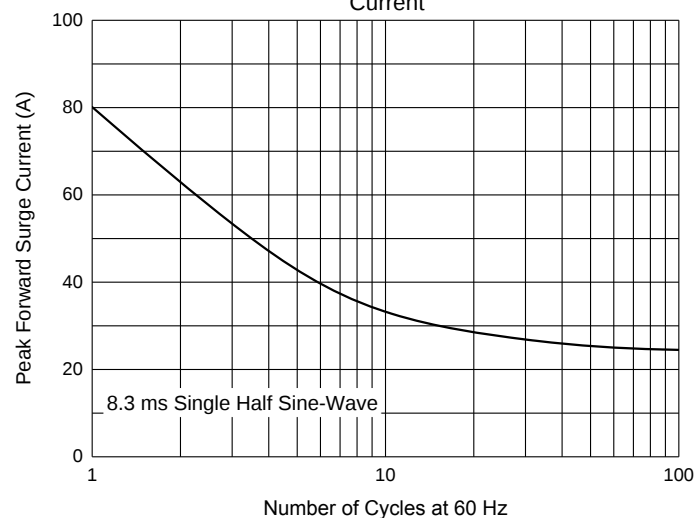


Fig. 3 - Typical Instantaneous Forward Characteristics

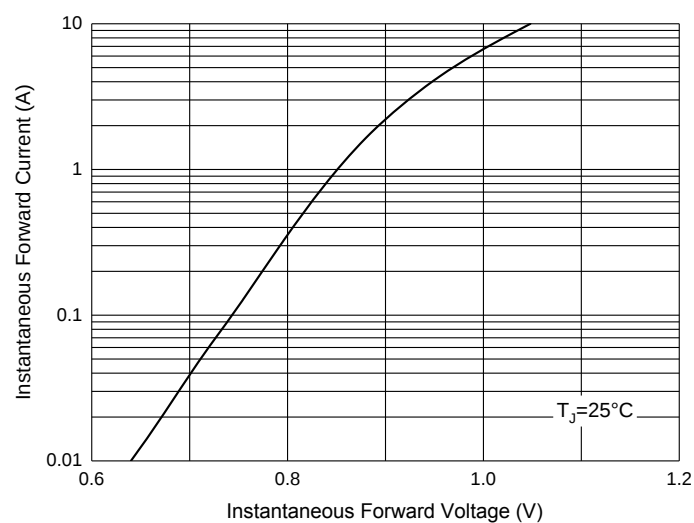
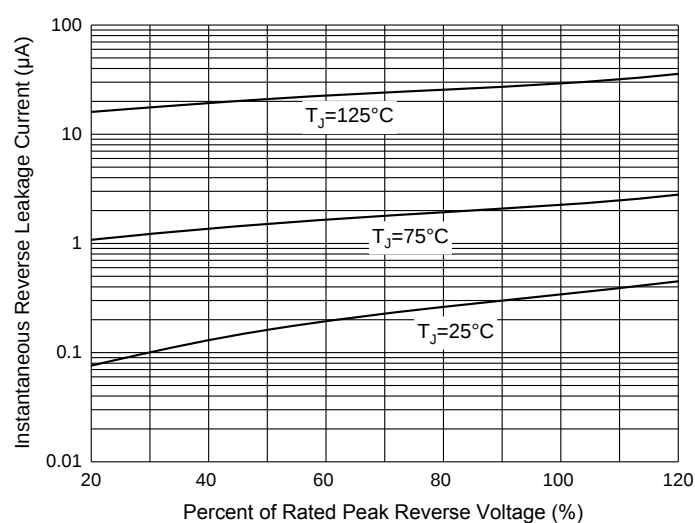


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-BP	Tube:22pcs/Tube,1100pcs/Box,4400pcs/Ctn;

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

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