

	<b>E502650</b>
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**Features**

- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)
- With Heat Sink on Top Vacuum Soldering Process Minimize The Solder Voids, Typical Voids are 2% and Max Voids Less Than 8%
- Epoxy Meets UL 94 V-0 Flammability Rating
- Any Mounting Position

**Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 1.0°C/W Junction to Case

**Mechanical Data**

- Mounting Torque: 8.0 in-lbs Maximum
- Mounting Hole For #10 Screw

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBPC5012H	GBPC5012	1200V	840V	1200V

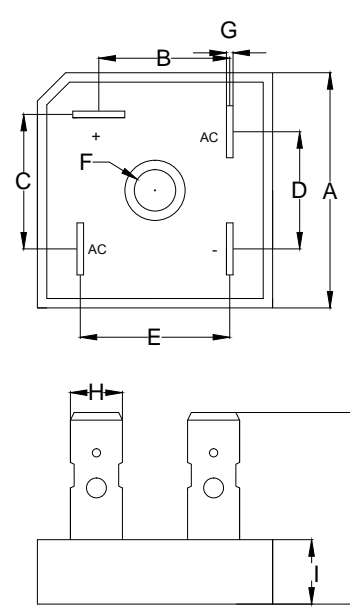
**Electrical Characteristics @ 25°C Unless Otherwise Specified**

Average Forward Current	$I_{F(AV)}$	50A	$T_C = 55^\circ\text{C}$ With Heatsink
Peak Forward Surge Current	$I_{FSM}$	500A	8.3ms, Half Sine
Maximum Forward Voltage Drop Per Element	$V_F$	1.1V	$I_{FM} = 25\text{A}$ Per Element; $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	5 $\mu\text{A}$ 500 $\mu\text{A}$	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
Rating for Fusing	$I^2t$	1037A <sup>2</sup> s	1ms ≤ t ≤ 8.3ms
Dielectric Strength, Terminals to Case, AC 1 Minute	$V_{dis}$	2.5KV	

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

# 50 Amp Glass Passivated Single Phase Bridge Rectifier 1200 Volts

**GBPC-H**



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.114	1.134	28.30	28.80	
B	0.634	0.673	16.10	17.10	
C	0.634	0.673	16.10	17.10	
D	0.543	0.583	13.80	14.80	
E	0.693	0.732	17.60	18.60	
F	0.197 Nominal		5.00 Nominal		Φ
G	0.030	0.034	0.76	0.86	
H	0.244	0.256	6.20	6.50	
I	0.291	0.335	7.40	8.50	
J	0.874	0.953	22.20	24.20	

**Curve Characteristics**

Fig. 1 - Forward Current Derating Curve

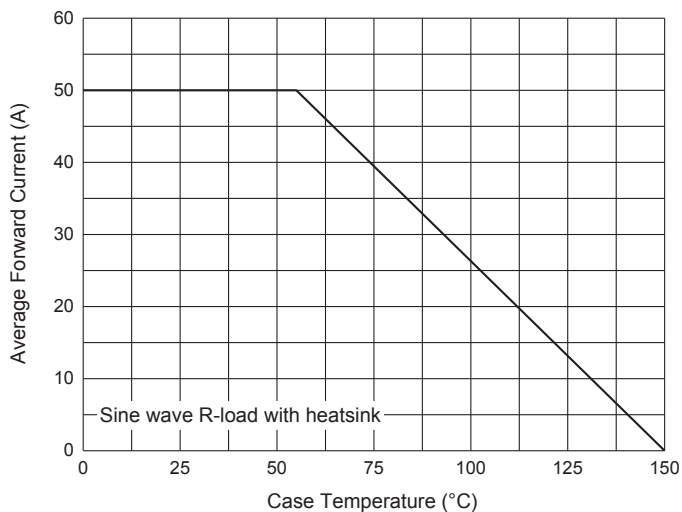


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

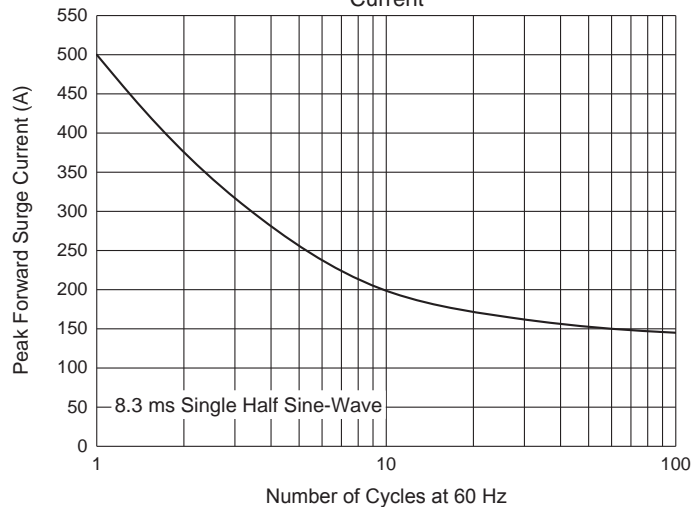


Fig. 3 - Typical Instantaneous Forward Characteristics

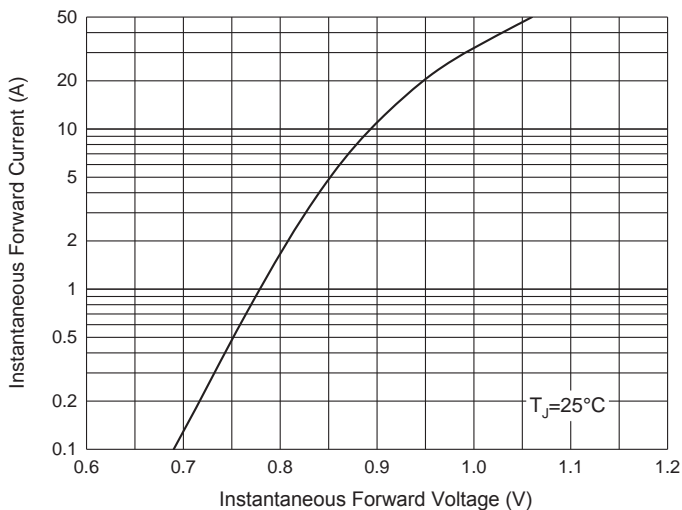
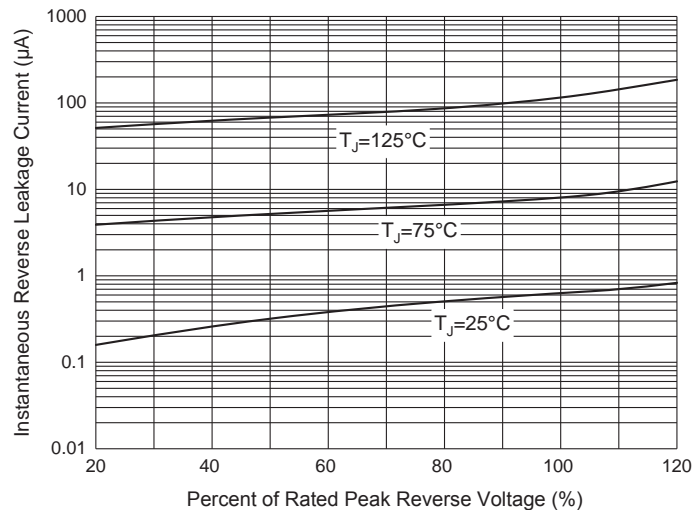


Fig. 4 - Typical Reverse Leakage Characteristics



## Ordering Information

Device	Packing
GBPC5012H-BP	Bulk:50pcs/Box,400pcs/Carton

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