

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- 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
GBPC5012	GBPC5012	1200V	840V	1200V

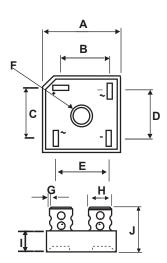
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	50A	T _C = 55°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} = 25A Per Element; T_J = 25°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	5μΑ 500μΑ	T _J = 25°C T _J = 125°C
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



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	1.114	1.134	28.30	28.80		
В	0.634	0.673	16.10	17.10		
С	0.634	0.673	16.10	17.10		
D	0.543	0.583	13.80	14.80		
Е	0.693	0.732	17.60	18.60		
F	0.197 N	lominal	5.00 N	lominal	Ф	
G	0.030	0.034	0.76	0.86		
Н	0.244	0.256	6.20	6.50		
I	0.291	0.335	7.40	8.50		
J	0.740	0.850	18.80	21.60		



Curve Characteristics

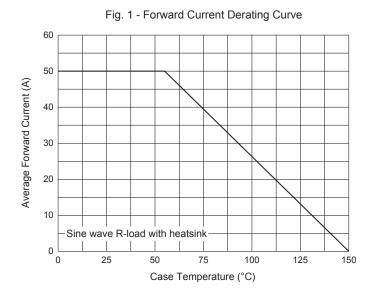
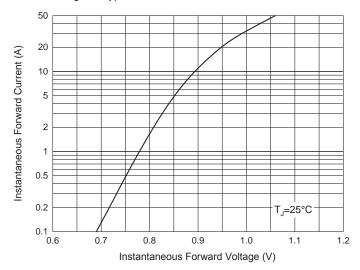


Fig. 3 - Typical Instantaneous Forward Characteristics



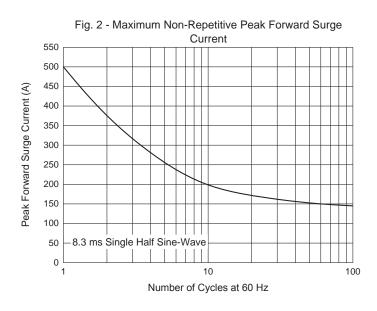
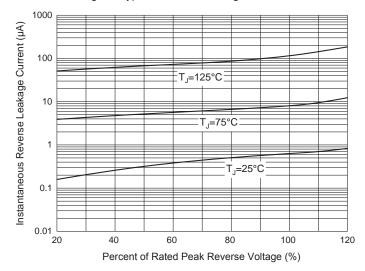


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
GBPC5012-BP	Bulk:50pcs/Box,400pcs/Carton	

Note: Adding "-HF" Suffix For Halogen Free, eg. GBPC5012-BP-HF

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