

F1 E502650

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

50 Amp Glass Passivated Single Phase Bridge Rectifier 1200 Volts

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

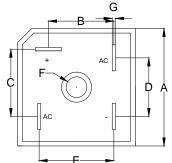
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBPC5012H	GBPC5012	1200V	840V	1200V

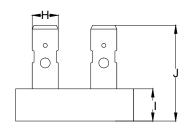
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	50A	T _C = 55°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
Rating for Fusing	l²t	1037A ² 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.

GBPC-H





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		
E	0.693	0.732	17.60	18.60		
F	0.197 Nominal 5.00 Nominal		lominal	Ф		
G	0.030	0.034	0.76	0.86		
Н	0.244	0.256	6.20	6.50		
ı	0.291	0.335	7.40	8.50		
J	0.874	0.953	22.20	24.20		



Curve Characteristics

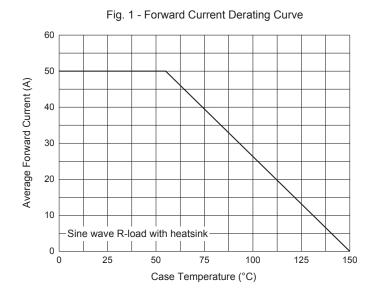
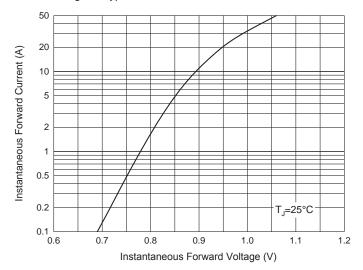


Fig. 3 - Typical Instantaneous Forward Characteristics



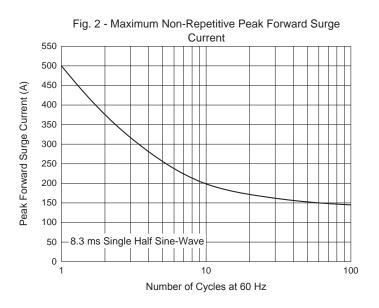
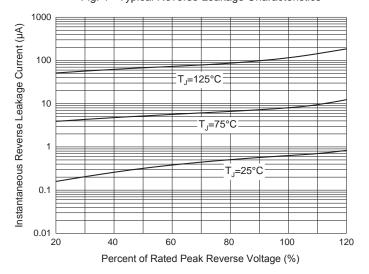


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

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

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