

AI,

E502650

Features

- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- With Heat Sink On TopVacuum Soldering Process Minimize The Solder Voids, Typical Voids Are 2% And Max Voids Less Than 8%
- · Moisture Sensitivity Level 1
- 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: 20 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
GBPC50005	GBPC50005	50V	35V	50V
GBPC5001	GBPC5001	100V	70V	100V
GBPC5002	GBPC5002	200V	140V	200V
GBPC5004	GBPC5004	400V	280V	400V
GBPC5006	GBPC5006	600V	420V	600V
GBPC5008	GBPC5008	800V	560V	800V
GBPC5010	GBPC5010	1000V	700V	1000V

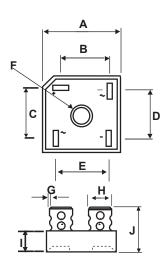
Electrical Characteristics @ 25°C Unless Otherwise Specified

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	
Current Squared Time	l²t	1040A ² S	1ms≤t≤8.3ms, Per Diode	
Dielectric Strength	V _{dis}	2.5KV	Terminals to case, AC 1 minute	

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

50 Amp Glass Passivated Single Phase Bridge Rectifier 50 to 1000 Volts





DIMENSIONS					
DIM	INCHES		MM		NOTE
	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

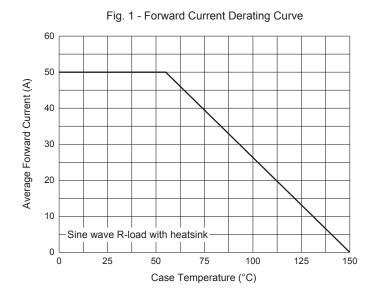
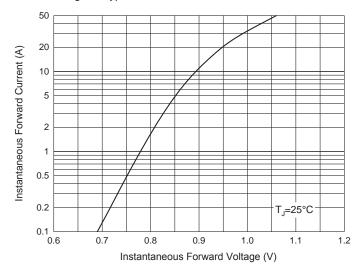


Fig. 3 - Typical Instantaneous Forward Characteristics



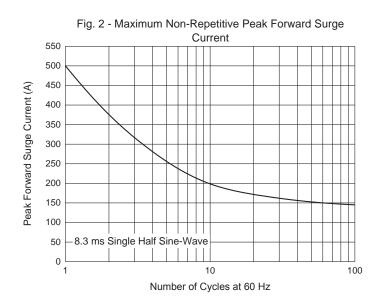
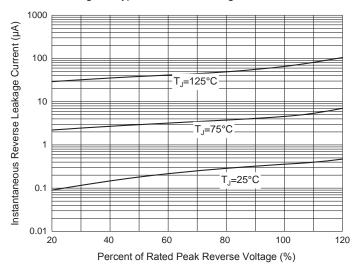


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

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

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