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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

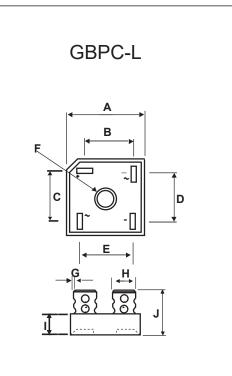
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBPC5010L	GBPC5010	1000V	700V	1000V

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	l ² t	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 1000 Volts

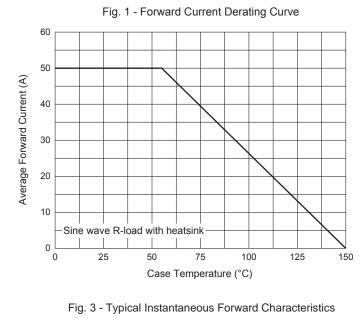


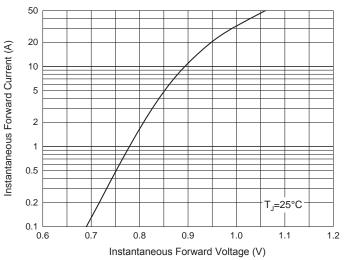
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
А	1.114	1.134	28.30	28.80	
В	0.634	0.673	16.10	17.10	
С	0.634	0.673	16.10	17.10	
D	0.543	0.583	13.80	14.80	
Е	0.693	0.732	17.60	18.60	
F	0.197 N	ominal	5.00 N	lominal	Φ
G	0.030	0.034	0.76	0.86	
Н	0.244	0.256	6.20	6.50	
Ι	0.291	0.335	7.40	8.50	
J	0.618	0.697	15.70	17.70	
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Curve Characteristics





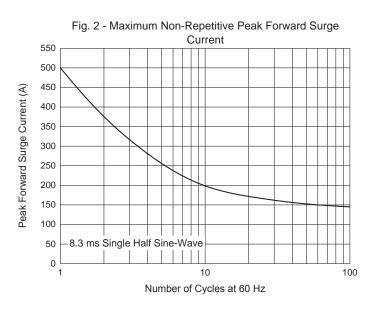
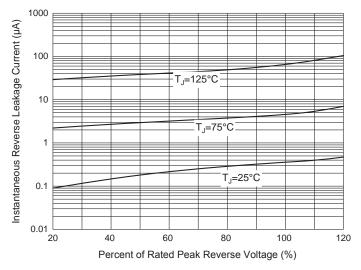


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing
Part Number-BP	Bulk:400Pcs/Ctn

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