



E502650

Features

- Low Forward Voltage Drop
- Plastic Case
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

Mechanical Data

- Mounting Torque: 4.5 in-lbs Maximum

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
BR1005	BR1005	50V	35V	50V
BR101	BR101	100V	70V	100V
BR102	BR102	200V	140V	200V
BR104	BR104	400V	280V	400V
BR106	BR106	600V	420V	600V
BR108	BR108	800V	560V	800V
BR1010	BR1010	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

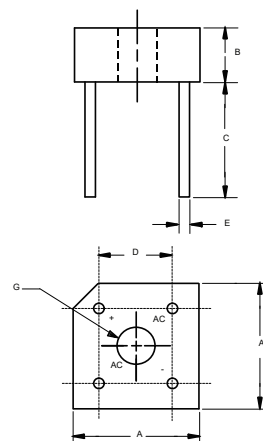
Average Forward Current	$I_{F(AV)}$	10A	$T_c = 75^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	150A	8.3ms, Half Sine
Maximum Forward Voltage Drop Per Element	V_F	1.1V	$I_{FM} = 5.0\text{A}; T_J = 25^\circ\text{C}^*$
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	10 μA 2mA	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$
Rating for Fusing	I^2t	93.4A ² s	

*Pulse test: Pulse width 300 μsec , Duty cycle 2%

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

10 Amp Single Phase Bridge Rectifier 50 - 1000 Volts

PB-6



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.578	0.619	14.69	15.71	2PL
B	0.230	0.270	5.84	6.86	
C	0.752	---	19.10	---	
D	0.405	0.445	10.29	11.31	2PL
E	0.038	0.042	0.97	1.07	4PL/TY
G	0.145	---	3.70	---	Φ

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

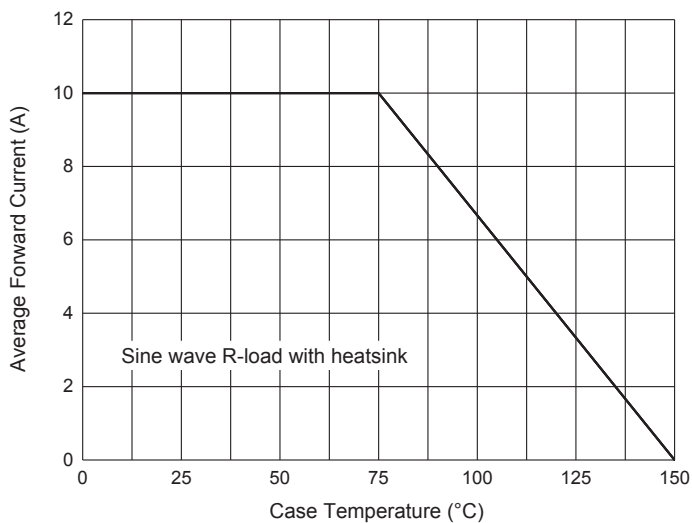


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

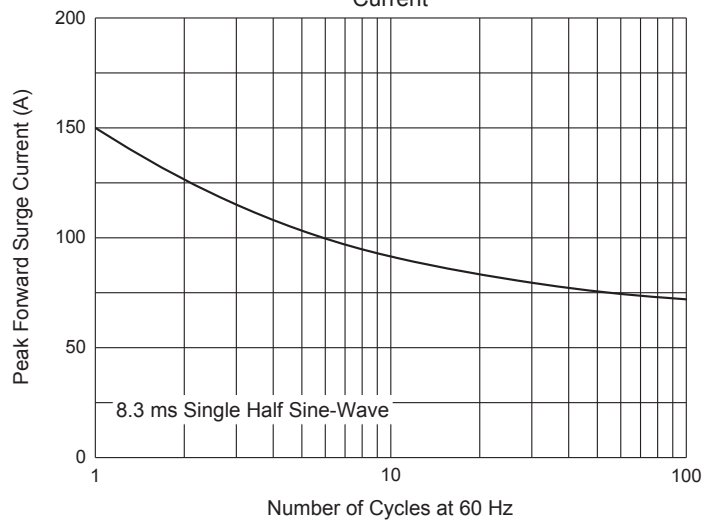


Fig. 3 - Typical Instantaneous Forward Characteristics

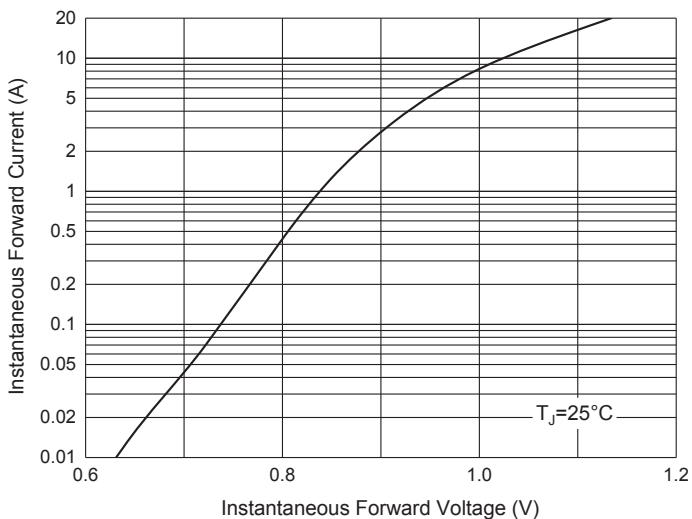
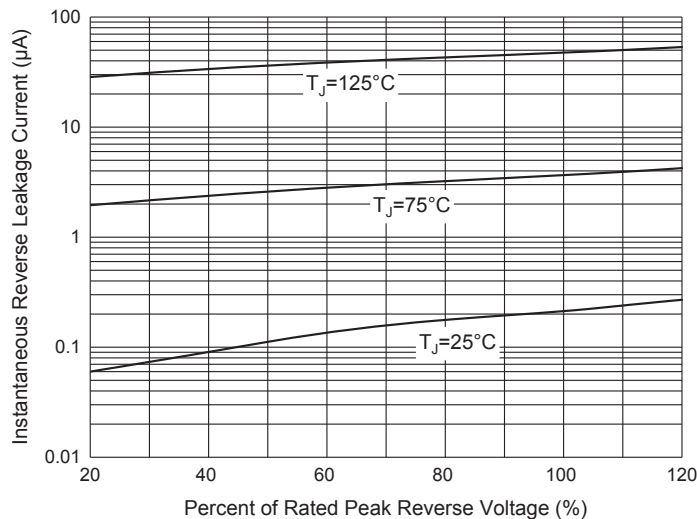


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-BP	Bulk; 200Pcs/Box, 1.6k/Ctn

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