



E502650

**Features**

- Low Forward Voltage and Any Mounting Position
- Surge Overload Rating of 250 Amps
- Silver Plated Copper Leads
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)

**Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 21°C/W Junction to Ambient

**Mechanical Data**

- Mounting Torque: 4.5in-lbs Maximum
- Mounting Hole: #6 Screw

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
PB805	PB805	50V	35V	50V
PB81	PB81	100V	70V	100V
PB82	PB82	200V	140V	200V
PB84	PB84	400V	280V	400V
PB86	PB86	600V	420V	600V
PB88	PB88	800V	560V	800V
PB810	PB810	1000V	700V	1000V

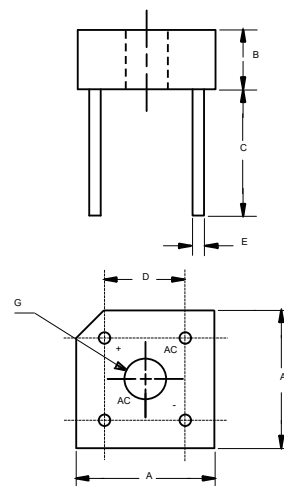
**Electrical Characteristics @ 25°C Unless Otherwise Specified**

Average Forward Current	$I_{F(AV)}$	8.0A	$T_c = 50^\circ C$
Peak Forward Surge Current	$I_{FSM}$	220A	8.3ms, Half Sine
Maximum Forward Voltage Drop Per Element	$V_F$	1.1V	$I_F = 4.0A$ $T_J = 25^\circ C$
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	10µA 0.5mA	$T_J = 25^\circ C$ $T_J = 100^\circ C$

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

**8 Amp Single Phase Bridge Rectifier  
50 to 1000 Volts**

PB-10



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.730	0.770	18.50	19.56	2PL
B	0.250	0.300	6.35	7.60	
C	0.750	---	19.10	---	
D	0.480	0.520	12.20	13.20	2PL
E	0.050		1.27		4PL/TYP
G	HOLE FOR NO 6 SCREW				Φ

## Curve Characteristics

Fig. 1 - Forward Current Derating Curve

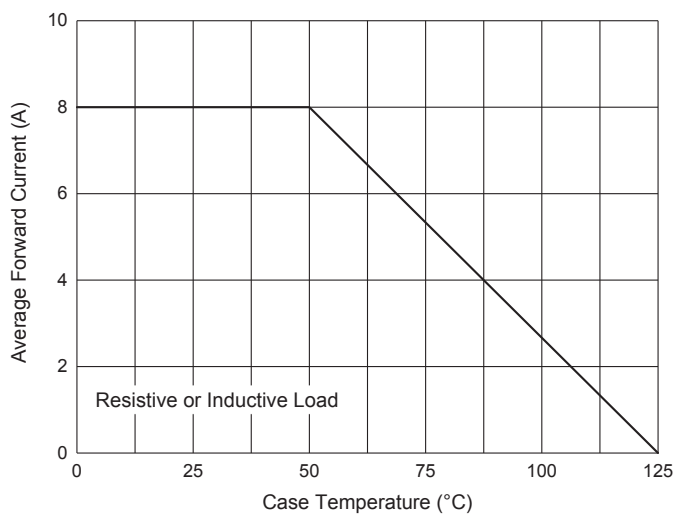


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

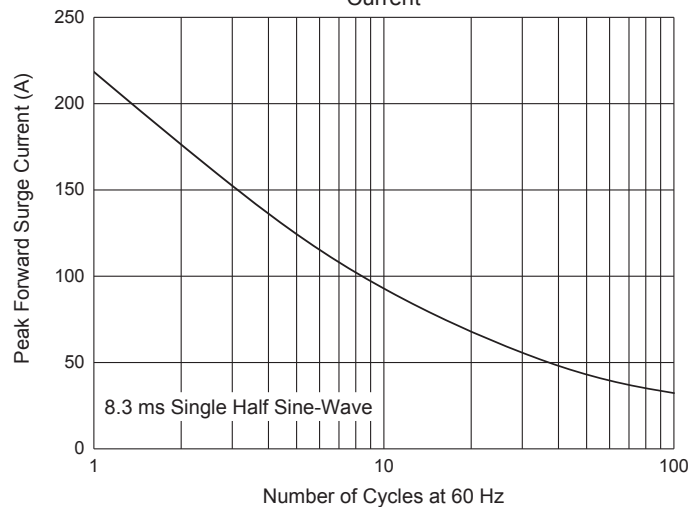


Fig. 3 - Typical Instantaneous Forward Characteristics

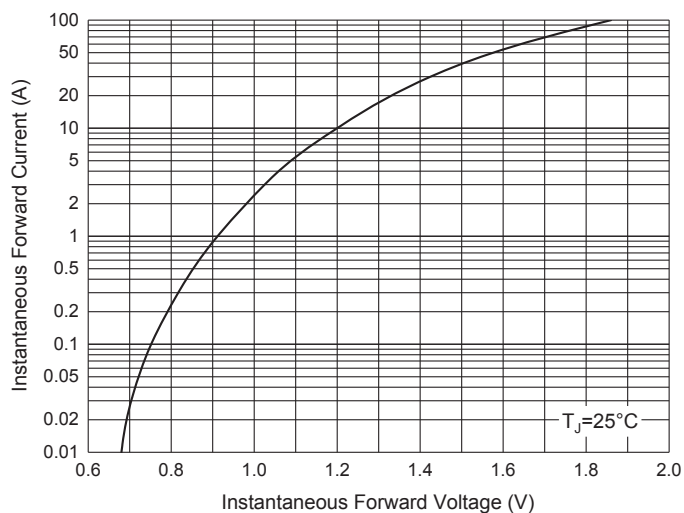
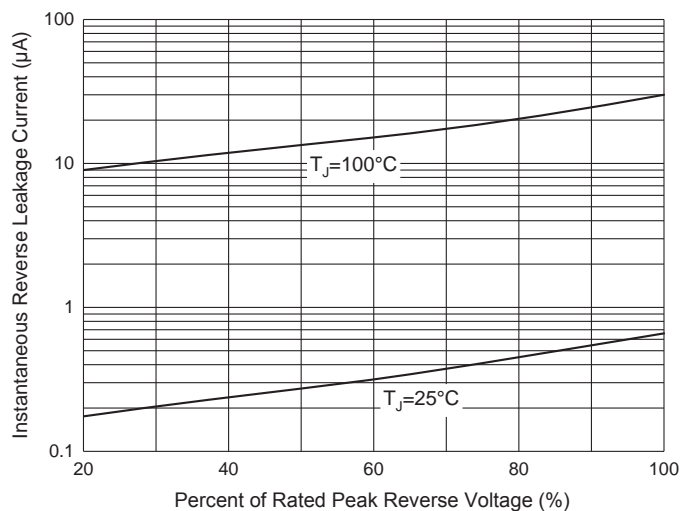


Fig. 4 - Typical Reverse Leakage Characteristics



## Ordering Information

Device	Packing
Part Number-BP	Bulk; 200Pcs/Box, 2000Pcs/Ctn

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