

	E502650
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Features

- 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
- High Conductivity Metal Case

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 3.4°C/W Junction to Case

Mechanical Data

- Mounting Torque: 2.0 N.m, Tolerance: +/-10%
- Mounting Hole For #8 Screw

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MB1505W	MB1505W	50V	35V	50V
MB151W	MB151W	100V	70V	100V
MB152W	MB152W	200V	140V	200V
MB154W	MB154W	400V	280V	400V
MB156W	MB156W	600V	420V	600V
MB158W	MB158W	800V	560V	800V
MB1510W	MB1510W	1000V	700V	1000V

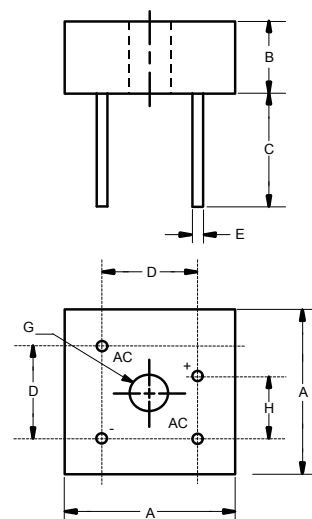
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	15A	$T_C = 55^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	300A	8.3ms, Half Sine
Maximum Forward Voltage Drop Per Element	V_F	1.2V	$I_{FM} = 7.5A ; T_J = 25^\circ\text{C}$
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	10µA 1mA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
Case to Terminal Isolation Voltage	V_{ISO}	2.5KV	

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

15 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

MB-35W



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	MIN	MAX	MIN	MAX	
A	1.115	1.135	28.33	28.83	
B	0.427	0.447	10.85	11.35	
C	0.774	---	19.65	---	
D	0.673	0.752	17.10	19.10	
E	0.038	0.042	0.96	1.07	4PL/TYP
G	0.193	---	4.90	---	Φ
H	0.429	0.469	10.90	11.90	

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

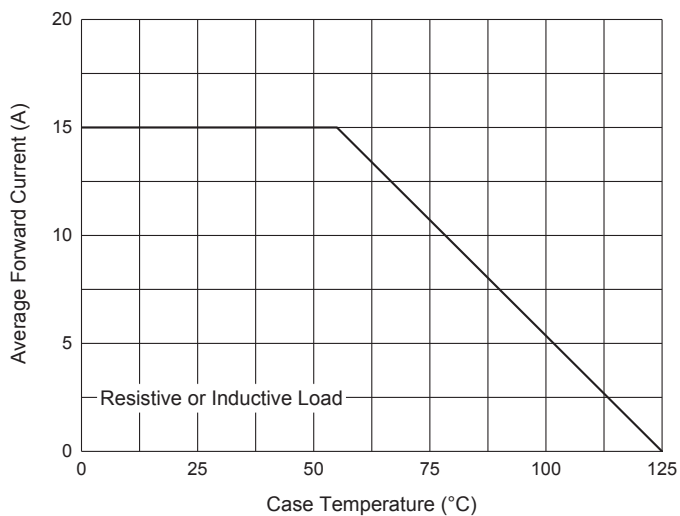


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

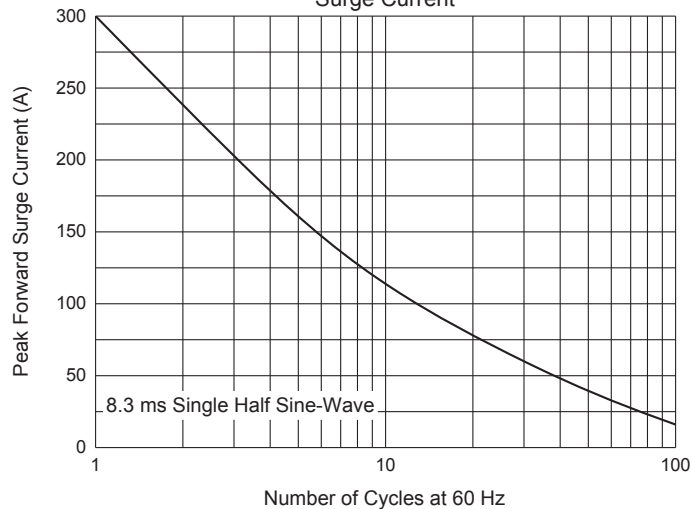


Fig. 3 - Typical Instantaneous Forward Characteristics

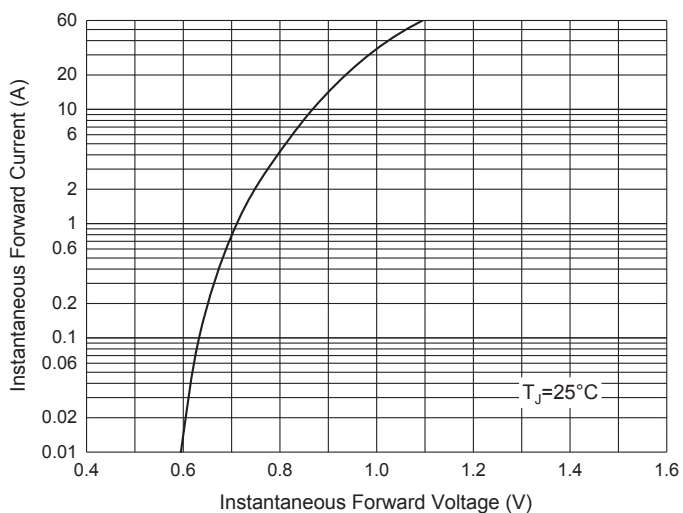
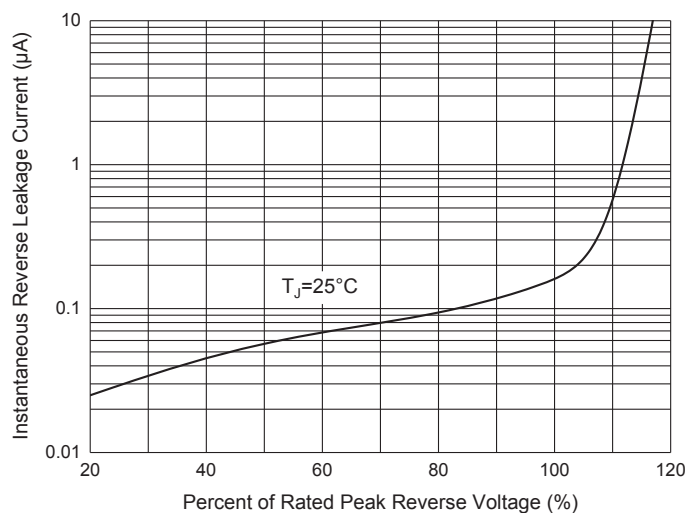


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

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

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