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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
- Moisture Sensitivity Level 1
- · High Conductivity Metal Case

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- \bullet Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 2.2°C/W Junction to Case

Mechanical Data

- Mounting Torque: 20 in-lbs Maximum
- Mounting Hole For #8 Screw

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MB2505W	MB2505W	50V	35V	50V
MB251W	MB251W	100V	70V	100V
MB252W	MB252W	200V	140V	200V
MB254W	MB254W	400V	280V	400V
MB256W	MB256W	600V	420V	600V
MB258W	MB258W	800V	560V	800V
MB2510W	MB2510W	1000V	700V	1000V

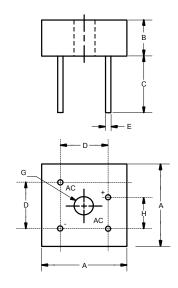
Electrical Characteristics @ 25°C Unless Otherwise Specified

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Average Forward Current	I _{F(AV)}	25A	T _C = 55°C
Peak Forward Surge Current	I _{FSM}	300A	8.3ms, Half Sine
Maximum Forward Voltage Drop Per Element	V _F	1.2V	I _{FM} = 12.5A; T _J = 25°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	10µA 1mA	T _J = 25°C T _J = 125°C
Case to Terminal Isolation Voltage	V _{ISO}	2.5KV	

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

25 Amp Single Phase Bridge Rectifier 50 to 1000 Volts





DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	1.115	1.135	28.33	28.83		
В	0.427	0.447	10.85	11.35		
С	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		Ф	
Н	0.429	0.469	10.90	11.90		



Curve Characteristics

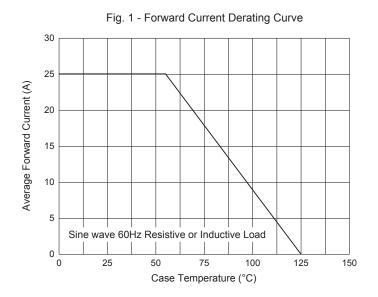
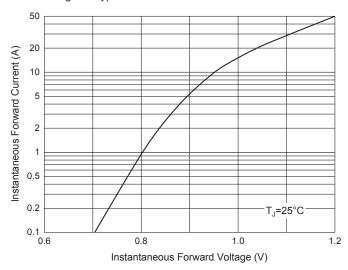


Fig. 3 - Typical Instantaneous Forward Characteristics



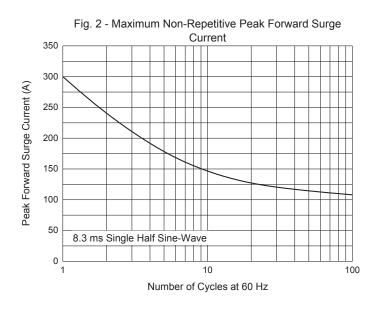
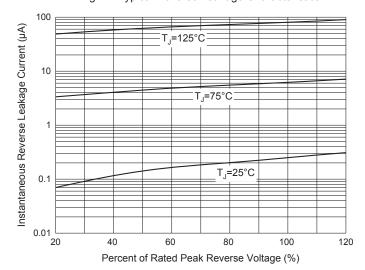


Fig. 4 - Typical Reverse Leakage Characteristics



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Ordering Information

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

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