



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 MB1005 THRU MB1010

Features

- Mounting Hole For #6 Screw
- Any Mounting Position
- Surge Rating Of 150 Amps
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

- Maximum Mounting Torque: 4.5 in-lbs.
- UL Recognized File # E165989
- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance: 5°C/W Junction to case

MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
	iviaikiiig			
Number		Peak	Voltage	Blocking
		Reverse		Voltage
		Voltage		
MB1005	MB1005	50V	35V	50V
MB101	MB101	100V	70V	100V
MB102	MB102	200V	140V	200V
MB104	MB104	400V	280V	400V
MB106	MB106	600V	420V	600V
MB108	MB108	800V	560V	800V
MB1010	MB1010	1000v	700V	1000v

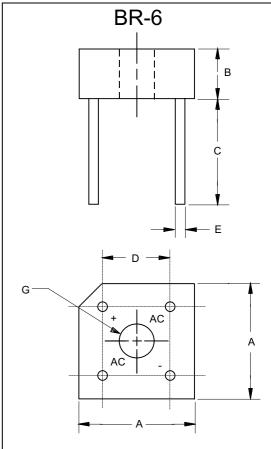
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	10.0A	$T_c = 50^{\circ}C$
Peak Forward Surge Current	I _{FSM}	150A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_{F}	1.1V	I _{FM} = 5.0A per element; T _J = 25°C (Note 2)
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10 μA 1.0mA	T _J = 25°C T _J = 100°C

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

2. Pulse Test: Pulse Width 300usec, Duty Cycle 1%

10 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

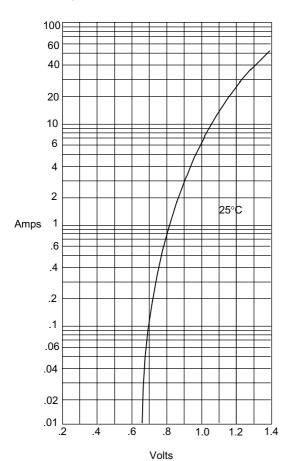


DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.578	.618	14.69	15.71	2PL	
В	.230	.270	5.84	6.86		
С	.750		19.10			
D	.405	.444	10.30	11.30	2PL	
Е	.038	.042	0.97	1.07	4PL/TYP	
G	.145		3.70		Ø	



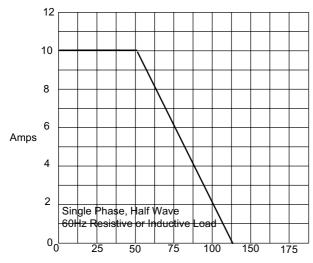
MB1005 thru MB1010

Figure 1
Typical Forward Characteristics



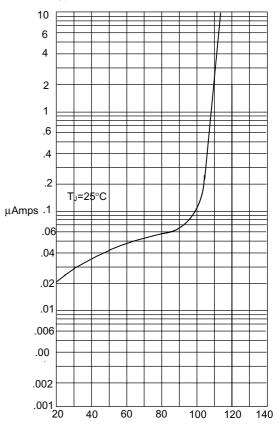
Instantaneous Forward Current - Amperes*versus* Instantaneous Forward Voltage - Volts



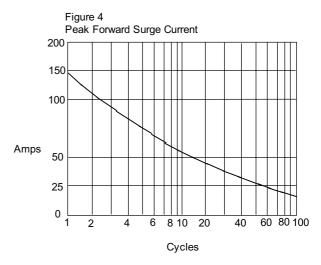


 $^{\circ}\text{C}$ Average Forward Rectified Current - Amperes versus Case Temperature - $^{\circ}\text{C}$

Figure 2 Micro Commercial Components
Typical Reverse Characteristics



Volts Instantaneous Reverse Leakage Current - MicroAmperesersus Percent Of Rated Peak Reverse Voltage - Volts



Peak Forward Surge Current - Amperes versus Number Of Cycles At 60Hz - Cycles



Ordering Information:

Device	Packing
Part Number-BP	Bulk: 1.6kpcs/Ctn

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