



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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BR1005 THRU BR1010

Features

- Low Forward Voltage Drop
- Plastic Case
- Any Mounting Position
- Surge Rating of 150 Amps
- Halogen free available upon request by adding suffix "-HF"
- 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

- Mounting Torgue: 4.5 in-lbs Maximum
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

MCC Catalog 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

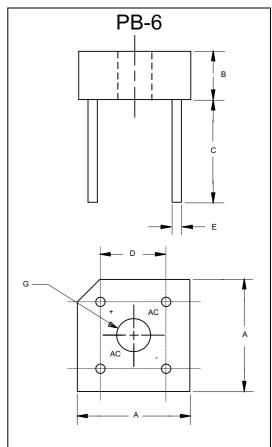
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	10.0A	T _c = 75°C
Peak Forward Surge Current	I _{FSM}	150A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V _F	1.1V	I _{FM} = 5A per element; T _J = 25°C (Note 2)
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μA 2mA	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

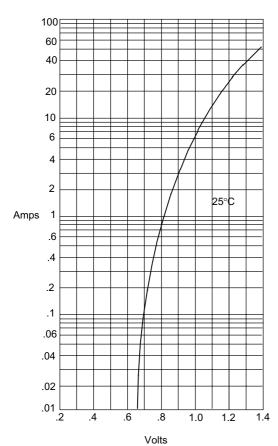


DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.578	.619	14.69	15.71	2PL		
В	.230	.270	5.84	6.86			
С	.752		19.10				
D	.405	.445	10.29	11.31	2PL		
Е	.038	.042	0.97	1.07	4PL/TYP		
Ð	.145		3.70		Ø		

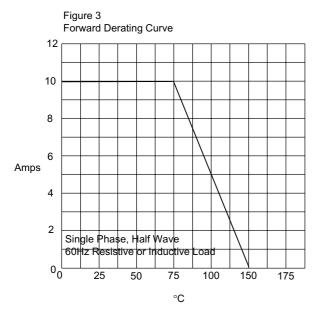


BR1005 thru BR1010

Figure 1
Typical Forward Characteristics

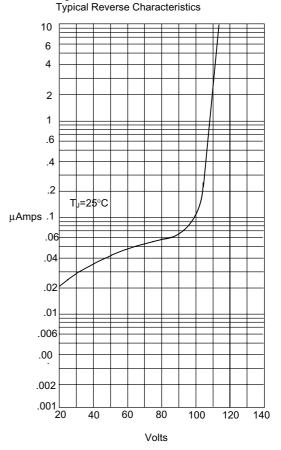


Instantaneous Forward Current - Amperes/ersus Instantaneous Forward Voltage - Volts

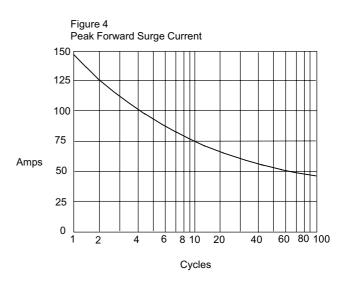


Average Forward Rectified Current - Amperes/ersus Case Temperature -°C

Figure 2 Micro Commercial Components



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



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles



Ordering Information:

Device	Packing
Part Number-BP	Bulk: 1.6Kpcs/Carton

Note: Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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