

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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# MP5005 THRU MP5010

## **Features**

- Mounting Hole For #8 Screw
- Plastic Case With Metal Bottom
- Any Mounting Position
- Surge Rating Of 400 Amps
- Case Material: Molded Plastic. UL Flammability Classificatio Rating 94-0 and MSL Rating 1
- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)

### **Maximum Ratings**

Operating Temperature: -50°C to +150°C
 Storage Temperature: -50°C to +150°C

MCC	Device	Maximum Maximum		Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		Voltage
MP5005	MP5005	50V	35V	50V
MP501	MP501	100V	70V	100V
MP502	MP502	200V	140V	200V
MP504	MP504	400V	280V	400V
MP506	MP506	600V	420V	600V
MP508	MP508	800V	560V	800V
MP5010	MP5010	1000v	700V	1000v

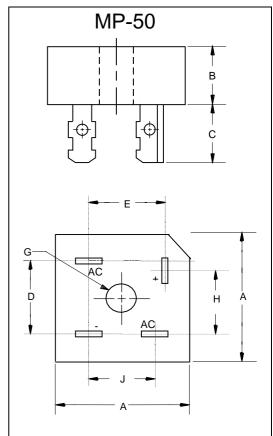
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	50.0A	Ta = 55°C
Peak Forward Surge Current	I <sub>FSM</sub>	400A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V <sub>F</sub>	1.2V	I <sub>FM</sub> = 25A per element; T <sub>J</sub> = 25°C (Note 2)
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	10μA 1.0mA	T <sub>J</sub> = 25°C T <sub>J</sub> = 100°C

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

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

# 50 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

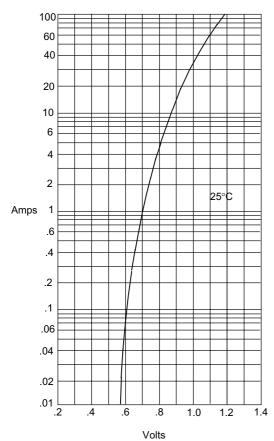


DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α		1.140		29.00		
В		.452		11.50		
С	.425	.480	10.80	12.20		
D	.693	.732	17.54	18.6		
Е	.637	.677	16.20	17.20		
G	.188		4.77		Ø	
Н	.633	.673	16.10	17.10		
J	.543	.582	13.80	14.80		

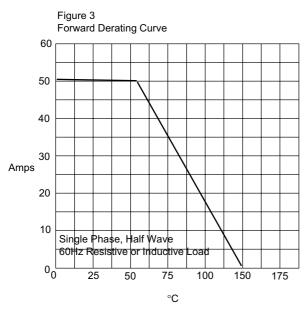


### MP5005 thru MP5010

Figure 1
Typical Forward Characteristics

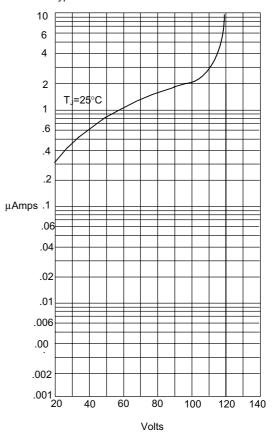


Instantaneous Forward Current - Amperes/ersus Instantaneous Forward Voltage - Volts

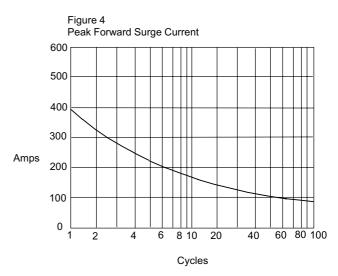


Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C





Instantaneous Reverse Leakage Current - MicroAmperesversus 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;50pcs/Box

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