



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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# MP4005W THRU MP4010W

## **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
- Mounting Torque: 2.0 N.m, Tolerance:+/-10%

MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		Voltage
MP4005W	MP4005W	50V	35V	50V
MP401W	MP401W	100V	70V	100V
MP402W	MP402W	200V	140V	200V
MP404W	MP404W	400V	280V	400V
MP406W	MP406W	600V	420V	600V
MP408W	MP408W	800V	560V	V008
MP4010W	MP4010W	1000V	700V	1000V

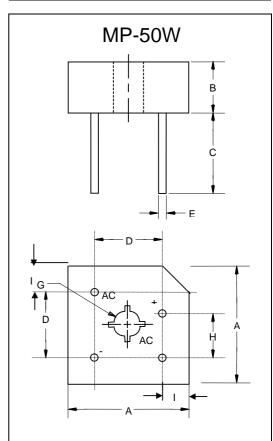
#### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	40.0A	T <sub>J</sub> = 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> = 20A 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%

# 40 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

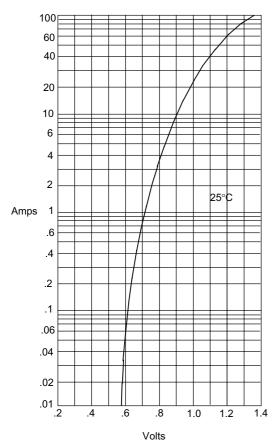


DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	1.118	1.130	28.40	28.70	
В	.432	.442	10.97	11.23	
С	.769		19.53		
D	.673	.752	17.10	19.10	
Е	.038	.042	.97	1.07	4PL/TYP
G	.193		4.90		Ø
Н	.429	.468	10.90	11.90	
i	.169	.236	4.30	6.00	

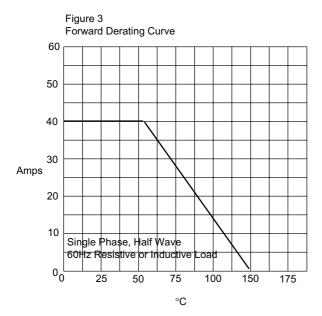


#### MP4005W thru MP4010W

Figure 1 Typical Forward Characteristics

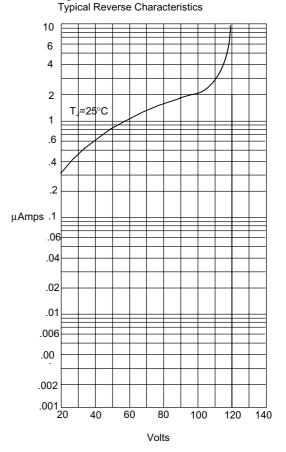


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

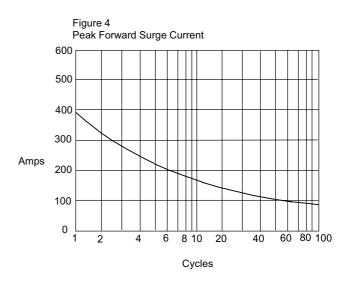


Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C

Figure 2 Micro Commercial Components



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; 400Pcs/Ctn

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