



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
- 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 (Note1) ("P"Suffix designates Compliant. See ordering information)

- Operating Temperature: -50°C to +150°C Storage Temperature: -50°C to +150°C
- Mounting Torque: 20 inch-lbs max.
- Typical Thermal Resistance: RthJC=2.0°C/W

MCC Catalog	Device Marking	Maximum Recurrent	Maximum RMS	Maximum DC
Number	Marking	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

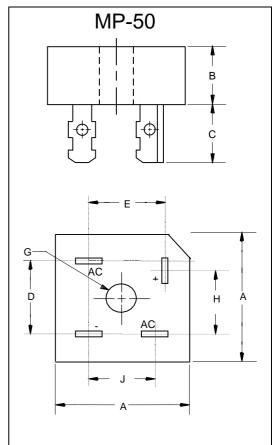
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	50.0A	Ta = 55°C
Peak Forward Surge Current	I _{FSM}	400A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V _F	1.2V	I _{FM} = 25A per element; T _J = 25°C (Note 2)
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μA 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%

50 Amp Single Phase **Bridge Rectifier** 50 to 1000 Volts

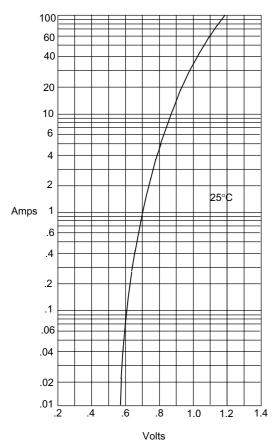


DIM MIN MAX MIN MAX NOTE A 1.140 29.00 B 4.52 11.50 C .425 .480 10.80 12.20 D .693 .732 17.54 18.6 E .637 .677 16.20 17.20 G .188 4.77 Ø H .633 .673 16.10 17.10	DIMENSIONS					
A 1.140 29.00 B .452 11.50 C .425 .480 10.80 12.20 D .693 .732 17.54 18.6 E .637 .677 16.20 17.20 G .188 4.77 Ø		INCHES		MM		
B452 11.50 C .425 .480 .10.80 .12.20 D .693 .732 .17.54 .18.6 E .637 .677 .16.20 .17.20 G .188 4.77 Ø	DIM	MIN	MAX	MIN	MAX	NOTE
C .425 .480 10.80 12.20 D .693 .732 17.54 18.6 E .637 .677 16.20 17.20 G .188 4.77 Ø	Α		1.140		29.00	
D .693 .732 17.54 18.6 E .637 .677 16.20 17.20 G .188 4.77 ∅	В		.452		11.50	
E .637 .677 16.20 17.20 G .188 4.77 Ø	С	.425	.480	10.80	12.20	
G .188 4.77 Ø	D	.693	.732	17.54	18.6	
	E	.637	.677	16.20	17.20	
H .633 .673 16.10 17.10	G	.188		4.77		Ø
	Η	.633	.673	16.10	17.10	
J .543 .582 13.80 14.80	٦	.543	.582	13.80	14.80	

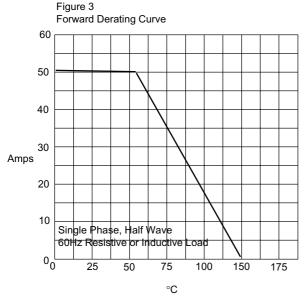


MP5005 thru MP5010

Figure 1
Typical Forward Characteristics

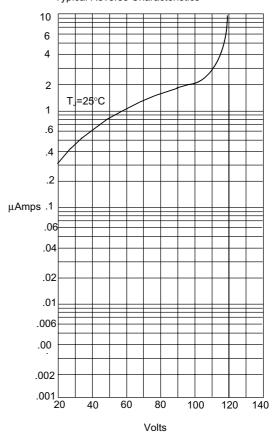


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

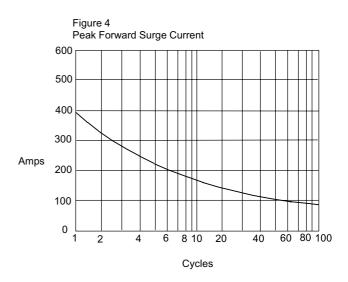


Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C

Figure 2 Micro Commercial Components Typical Reverse Characteristics



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; 400Pcs/Ctn

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

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