

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MP4005 THRU MP4010

Features

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

Maximum Ratings

- Operating Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C
- Mounting Torgue: 20 in-lbs Maximum

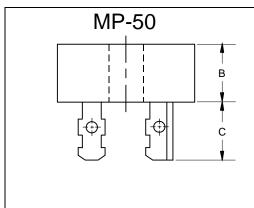
MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage	_	Voltage
MP4005	MP4005	50V	35V	50V
MP401	MP401	100V	70V	100V
MP402	MP402	200V	140V	200V
MP404	MP404	400V	280V	400V
MP406	MP406	600V	420V	600V
MP408	MP408	800V	560V	800V
MP4010	MP4010	1000v	700V	1000v

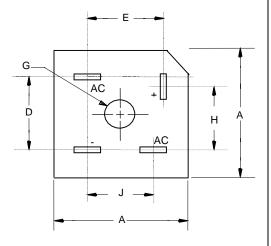
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	40.0A	$T_J = 55^{\circ}C$
Peak Forward Surge Current	I _{FSM}	400A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V _F	1.2V	I _{FM} = 20A per element; T _J = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μA 1.0mA	$T_{J} = 25^{\circ}C$ $T_{J} = 100^{\circ}C$

Note: 1.Pulse test: Pulse width 300 μ sec, Duty cycle 1% 2.Pulse test: Pulse width 300 μ sec, Duty cycle 1%

40 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

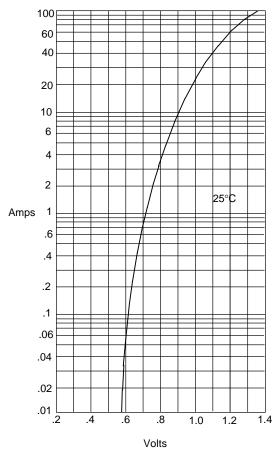




DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α		1.140		29.00	
В		.452		11.50	
С	.425	.480	10.80	12.20	
D	.693	.732	17.54	18.6	
E	.637	.677	16.20	17.20	
G	.188		4.77		Ø
Н	.633	.673	16.10	17.10	
J	.543	.582	13.80	14.80	

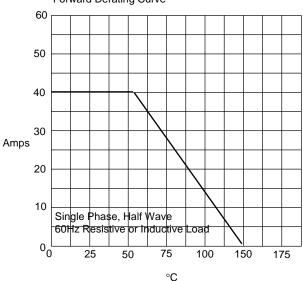
MP4005 thru MP4010

Figure 1 **Typical Forward Characteristics**



Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

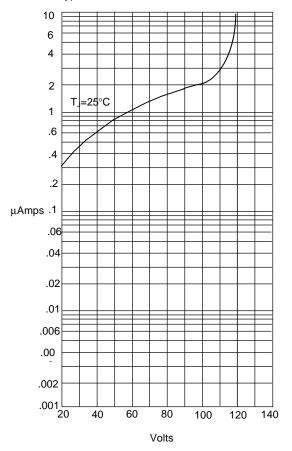
Figure 3 Forward Derating Curve



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

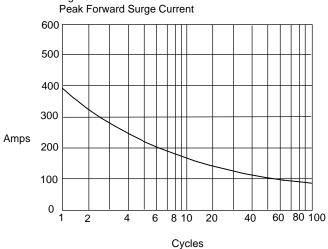


Figure 2 **Micro Commercial Components** Typical Reverse Characteristics



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

Figure 4 Peak Forward Surge Current



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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