



Micro Commercial Components



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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)

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			

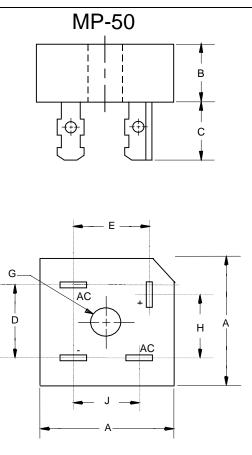
Electrical Characteristics @ 25°C Unless Otherwise Specified

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	$I_{FM} = 20A \text{ per}$ element; $T_J = 25^{\circ}C^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μΑ 1.0mA	T _J = 25°C T _J = 100°C

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



40 Amp Single Phase Bridge Rectifier 50 to 1000 Volts



DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
А		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	

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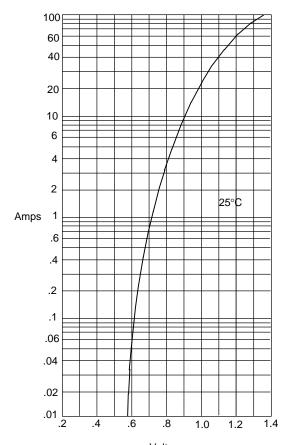
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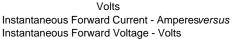
 $\cdot M \cdot C \cdot C \cdot$

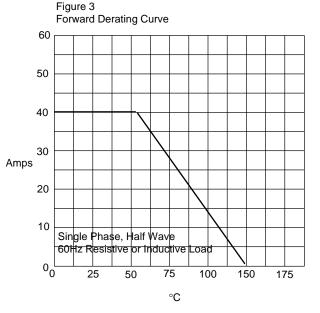
MP4005 thru MP4010

Figure 1

Typical Forward Characteristics

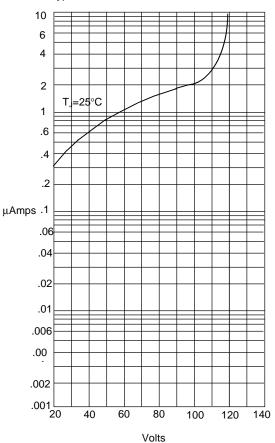




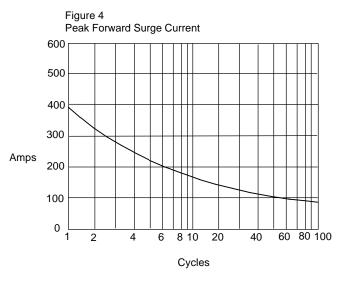


Average Forward Rectified Current - Amperes/ersus Ambient Temperature $\ \ \circ^{\rm C}$

Figure 2 Micro Commercial Components Typical Reverse Characteristics



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



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

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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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