

Micro Commercial Components

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MB2505 THRU MB2510

Features

- Mounting Hole For #10 Screw
- High Conductivity Metal Case
- Any Mounting Position
- Surge Rating Of 300 Amps
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

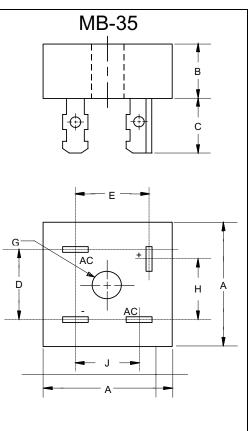
MCC	Device	Maximum	Maximum	Maximum	
Catalog	Marking	Recurrent	RMS	DC	
Number		Peak Reverse	Voltage	Blocking	
		Voltage	_	Voltage	
MB2505	MB2505	50V	35V	50V	
MB251	MB251	100V	70V	100V	
MB252	MB252	200V	140V	200V	
MB254	MB254	400V	280V	400V	
MB256	MB256	600V	420V	600V	
MB258	MB258	800V	560V	800V	
MB2510	MB2510	1000V	700V	1000V	
lastrical Charactaristics @ 25:0 Unlace Athorwica Spacified					

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	25.0A	$T_{C} = 55^{\circ}C$
Peak Forward Surge Current	I _{FSM}	300A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V _F	1.2V	I_{FM} = 12.5A per element; T _J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μΑ 1mA	T _J = 25°C T _J = 125°C

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

25 Amp Single Phase Bridge Rectifier 50 to 1000 Volts



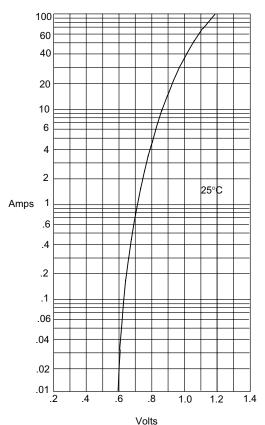
DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	1.115	1.135	28.33	28.83		
В	.427	.447	10.85	11.35		
С	.428	.468	10.87	11.89		
D	.688	.730	17.48	18.50		
E	.618	.658	15.70	16.71		
G	.200		5.08		Ø	
Н	.618	.658	15.70	16.71		
J	.530	.570	13.46	14.48		

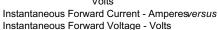
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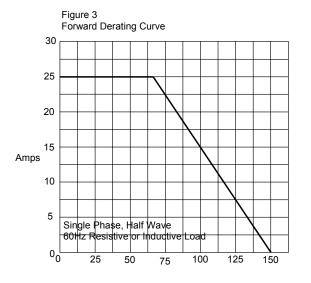


MB2505 thru MB2510

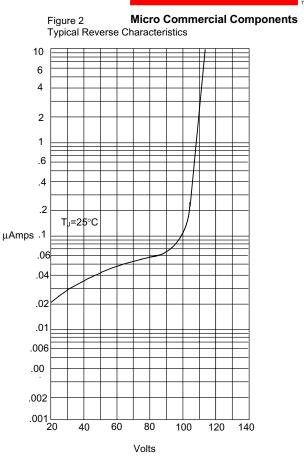
Figure 1 Typical Forward Characteristics



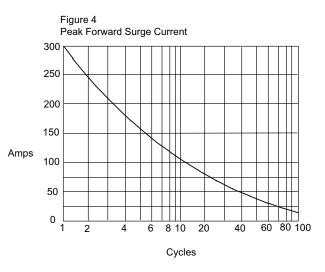




Average Forward Rectified Current - Amperes versus Case Temperature - $^\circ\text{C}$



Instantaneous Reverse Leakage Current - MicroAmperesersus 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;50pcs/Box

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