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MB12M THRU MB110M

Features

- Saves Space On Printed Circuit Board
- 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)

Mechanical Data

- Teminals: Plated leads Solderable per MIL-STD-750, Method 2026 Moisture Sensitiviy:Level 1 per J-STD-020C

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MB12M	MB12M	20V	14V	20V
MB14M	MB14M	40V	28V	40V
MB16M	MB16M	60V	42V	60V
MB18M	MB18M	80V	56V	80V
MB110M	MB110M	100V	70V	100V

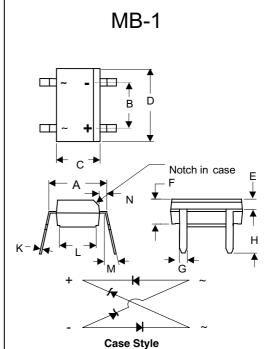
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward	$I_{F(AV)}$	1A			
Current					
Peak Forward Surge	I_{FSM}	30A	8.3ms, half sine		
Current					
Maximum					
Instantaneous					
Forward Voltage					
MB12M~MB14M	V_{F}	0.50V	I _{FM} = 1A;		
MB16M		0.70V	$T_{\Delta} = 25^{\circ}C$		
MB18M~MB110M		0.85V	1 _A = 25 C		
Maximum DC					
Reverse Current At	I_R	0.5mA	$T_A = 25^{\circ}C$		
Rated DC Blocking		20mA	$T_A = 100^{\circ}C$		
Voltage			,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Typical Thermal			per leg		
Resistance	R_{thJA}	88°C/W ⁽²⁾			
		28°C/W ⁽²⁾			
	R_{thJL}	∠8 C/VV`′			
Operating Junction	T_J	-55 to+150			
and Storage	T_{STG}	°С			
Temperature Range	310				
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1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

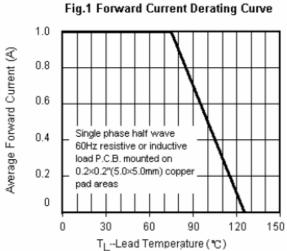
2. Thermal resistance form junction to ambient and from junction to lead P.C.B. mounted on 0.2*0.2"(5.0*5.0mm) copper pad areas.

1 Amp Schottky **Bridge Rectifier** 20 to 100 Volts

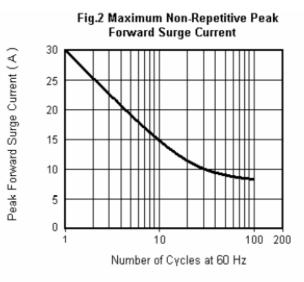


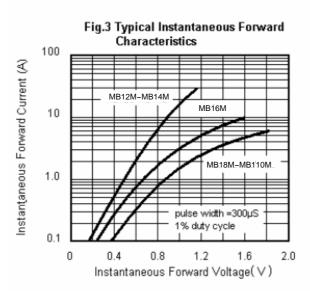
DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.195	.205	4.95	5.21			
В	.095	.105	2.41	2.67			
С	.144	.161	3.65	4.10			
D	.179	.190	4.55	4.83			
Е	.039	.049	0.99	1.24			
F	.090	.106	2.30	2.70			
O	.017	.029	0.43	0.74			
Н	.132	.148	3.35	3.75			
K	.006	.016	0.15	0.41			
L	.137	.147	3.48	3.73			
М	10°	15°	10°	15°			
Ν	.020	.028	0.51	0.71			













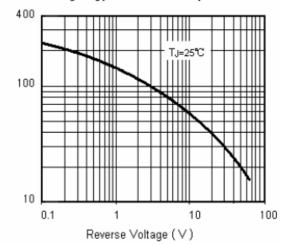


Fig.4 Typical Junction Capacitance



Ordering Information

Device	Packing
(Part Number)-BP	Bulk;5K/Box

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

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