

Micro Commercial Components



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Features

- High Temperature Soldering Guaranteed:260°C/10 Second
- 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

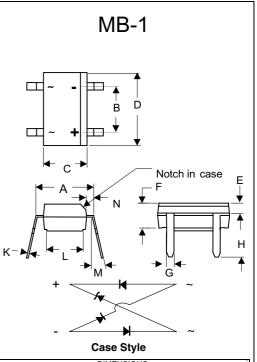
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1A	
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	$T_A = 25^{\circ}C$
MB18M~MB110M		0.85V	:A 20 0
Maximum DC			0
Reverse Current At	I _R	0.5mA	T _A = 25 [°] C
Rated DC Blocking		20mA	T _A = 100 [°] C
Voltage			
Typical Thermal			per leg
Resistance	R_{thJA}	88°C/W ⁽²⁾	
	R _{thJL}	28°c/W ⁽²⁾	
Operating Junction	T.I	-55 to+150	
and Storage	T _{STG}	°C	
Temperature Range	' STG	U U	
Temperature Range			

THRU MB110M

MB12M

1 Amp Surface Mount Schottky Bridge Rectifier 20 to 100 Volts



DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
А	.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		
E	.039	.049	0.99	1.24		
F	.090	.106	2.30	2.70		
G	.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		

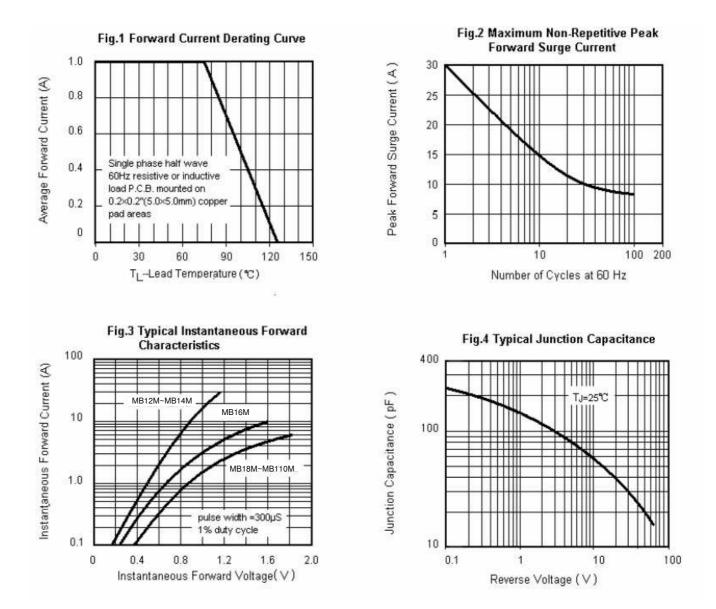
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

 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.

www.mccsemi.com

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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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