



Micro Commercial Components

Features

- Glass Passivated Diode Construction
- High Surge Overload Rating:35A peak
- Saves Space on Printed Circuit Board
- High Temperature Soldering Guaranteed: 260°C/10 Second
- 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)

RoH

CA 91311

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Micro Commercial Components

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Terminals: Plated Leads Solderable per MIL-STD-750, Method 2026

Maximum Ratings

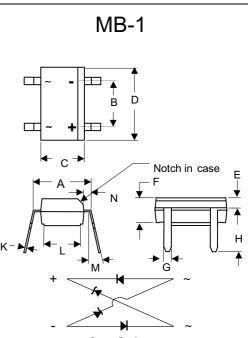
-							
MCC		Maximum	Maximum	Maximum			
Part	Device	Recurrent	RMS	DC			
Number	Marking	Peak Reverse	Voltage	Blocking			
	_	Voltage	-	Voltage			
MB05M	MB05M	50V	35V	50V			
MB1M	MB1M	100V	70V	100V			
MB2M	MB2M	200V	140V	200V			
MB4M	MB4M	400V	280V	400V			
MB6M	MB6M	600V	420V	600V			
MB8M	MB8M	800V	560V	800V			
MB10M	MB10M	1000V	700V	1000V			

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	0.5 A ⁽¹⁾ 0.8 A ⁽²⁾	See Fig.1			
Peak Forward Surge Current	I _{FSM}	35A	8.3ms, half sine			
Maximum Instantaneous Forward Voltage	V _F	1.0V	$I_{FM} = 0.4A;$ $T_A = 25^{\circ}C$			
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5 _μ Α 100 _μ Α	T _A = 25℃ T _A = 125℃			
Typical Thermal Resistance	${f R}_{ heta JA} \ {f R}_{ heta JA} \ {f R}_{ heta JA}$	85°C/W ⁽¹⁾ 70°C/W ⁽²⁾ 20°C/W ⁽¹⁾	per leg			
Typical Junction Capacitance	C」	13pF	Measured at 1.0MHz, V _R =4.0V			
Rating For Fusing	l ² t	5.0A ² s	t<8.30ms			
Operating Junction and Storage Temperature Range	T _J T _{STG}	- 55to+150 ℃				

MB05M THRU MB10M

0.5 Amp Single Phase Glass Passivated Bridge Rectifier 50 to 1000 Volts



Case Style

DIMENSIONS						
	INC HES		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		
G	.017	.029	0.43	0.74		
Н	.132	.203	3.35	5.16		
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		
Ν	.020	.028	0.51	0.71		

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

2. On glass epoxy P.C.B. mounted on 0.05 x 0.05"(1.3 x 1.3mm)pads

3. On aluminum substrate P.C.B. with an area of 0.8" x 0.8"(20 x 20mm) mounted on 0.05 x 0.05"(1.3x 1.3mm) solder pad

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MB05M thru MB10M



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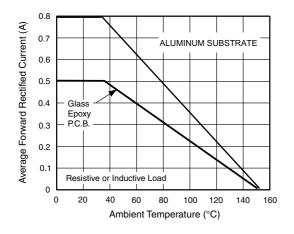
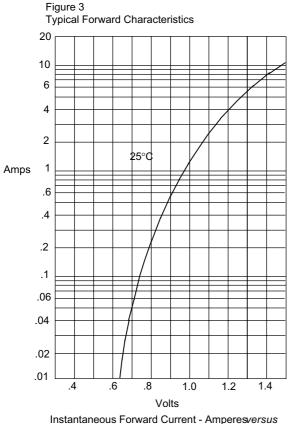
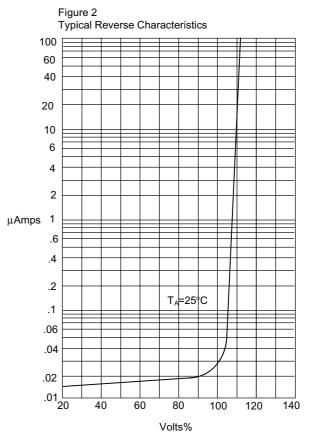


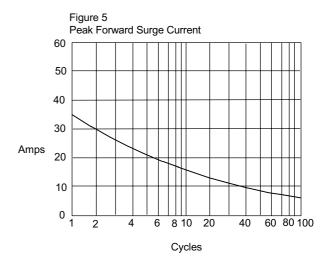
Figure 1. Derating Curve for Output Rectified Current



Instantaneous Forward Current - Amperesversu Instantaneous Forward Voltage - Volts



Instantaneous Reverse Leakage Current - MicroAmperesersus Percent Of Rated Peak Reverse Voltage - Volts%



Peak Forward Surge Current - Amperes *versus* Number Of Cycles At 60Hz - Cycles

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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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