

Excellent Integrated System Limited

Stocking Distributor

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Micro Commercial Components (MCC) MB10M-BP

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



Distributor of Micro Commercial Components (MCC) : Excellent Integrated System Limite Datasheet of MB10M-BP - IC BRIDGE GPP SGL 0.5A 1000V MB1 Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

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

Maximum Ratings

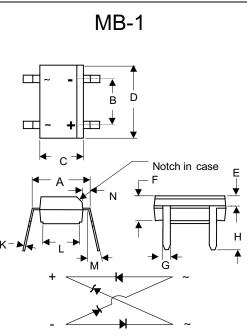
MCC		Maximum	Maximum	Maximum
Part	Device	Recurrent	RMS	DC
Number	Marking	Peak Reverse	Voltage	Blocking
		Voltage		Voltage
MB05M	MB05M	50V	35V	50V
MB1M	MB1M	100V	70V	100V
MB2M	MB2M	200V	140V	200V
MB4M	MB4M	400V	280V	400V
MB6M	MB6M	600V	420V	600V
MB8M	MB8M	800V	560V	800V
MB10M	MB10M	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

- · ·		a = a(1)	
Average Forward	I _{F(AV)}	0.5 A ⁽¹⁾	See Fig.1
Current	. ,	0.8 A ⁽²⁾	
Peak Forward Surge	I _{FSM}	35A	8.3ms, half sine
Current	IFSM	007	0.0113, 1141 3110
Maximum			
Instantaneous	VF	1.0V	$I_{FM} = 0.4A;$
Forward Voltage	-		$T_A = 25^{\circ}C$
Maximum DC			<u> </u>
Reverse Current At	1	Б ^	T – 25°⊂
	I _R	5 _μ Α	T _A = 25°C
Rated DC Blocking		100 _μ Α	T _A = 125°C
Voltage			
Typical Thermal	$R_{\theta JA}$	85°C/W ⁽¹⁾	per leg
Resistance	$R_{\theta JA}$	70°C/W ⁽²⁾	
	$R_{_{\theta}JL}$	20°C/W ⁽¹⁾	
Typical Junction	C,	13pF	Measured at
Capacitance	-		1.0MHz, V _R =4.0V
Rating For Fusing	l ² t	5.0A ² s	t<8.30ms
Operating Junction	ΤJ	-55to+150	
and Storage	T _{STG}	°C	
Temperature Range		Ŭ	

MB05M THRU MB10M

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





	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	
E	.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	
К	.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

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

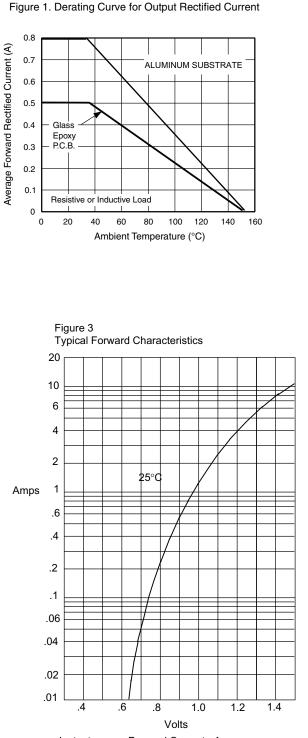


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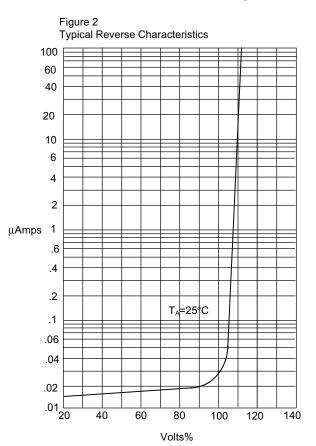
MB05M thru MB10M



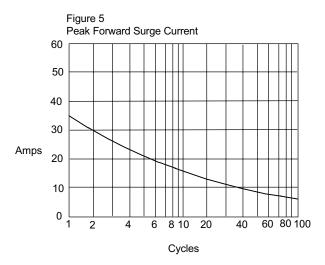
Micro Commercial Components



Instantaneous Forward Current - Amperesversus 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

www.mccsemi.com





Micro Commercial Components

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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