imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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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 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
- UL Recognized File # E165989

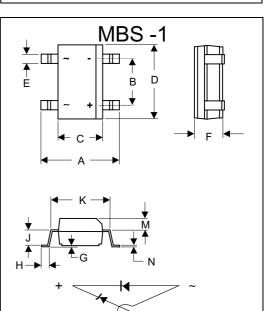
MCC		Maximum	Maximum	Maximum		
Part	Device	Recurrent	RMS	DC		
Number	Marking	Peak Reverse	Voltage	Blocking		
	_	Voltage	_	Voltage		
MB05S	MB05S	50V	35V	50V		
MB1S	MB1S	100V	70V	100V		
MB2S	MB2S	200V	140V	200V		
MB4S	MB4S	400V	280V	400V		
MB6S	MB6S	600V	420V	600V		
MB8S	MB8S	800V	480V	800V		
MB10S	MB10S	1000V	700V	1000V		

Electrical Characteristics @ 25°C Unless Otherwise Specified

		0 0 0111033 0	ιποι μισο ομοσιπου
Average Forward Current	I _{F(AV)}	0.5 A ⁽²⁾ 0.8 A ⁽³⁾	See Fig.1
Peak Forward Surge Current	I _{FSM}	35A	8.3ms, half sine
Maximum			
Instantaneous	VF	1.0V	I _{FM} = 0.4A;
Forward Voltage			$T_A = 25^{\circ}C$
Maximum DC			
Reverse Current At	I _R	5uA	$T_A = 25^{\circ}C$
Rated DC Blocking		100uA	T _A = 125 °C
Voltage		1000/1	T _A = 120 0
Typical Thermal	R_{thJA}	85°c/W ⁽²⁾	per leg
Resistance	R_{thJA}	70°C/W ⁽³⁾	
	R_{thJL}	20°C/W ⁽²⁾	
Typical Junction	C,	13pF	Measured at
Capacitance	C C	•	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		-	

MB05S THRU MB10S

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



Case Style

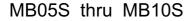
	DIMENSIONS						
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.252	.272	6.40	6.90			
В	.095	.106	2.41	2.70			
С	.150	.165	3.80	4.20			
D	.179	.195	4.55	4.95			
E	.019	.031	0.50	0.80			
F	.090	.106	2.30	2.70			
G	.004	.008	0.10	0.20			
Н	.027	.043	0.70	1.10			
J	.058	.062	1.47	1.57			
K	.195	.205	4.95	5.21			
М	.039	.049	0.99	1.24			
N	.006	.016	0.15	0.41			

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

www.mccsemi.com





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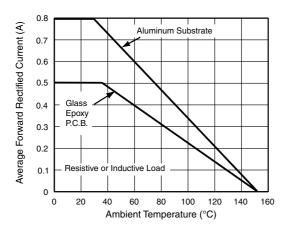
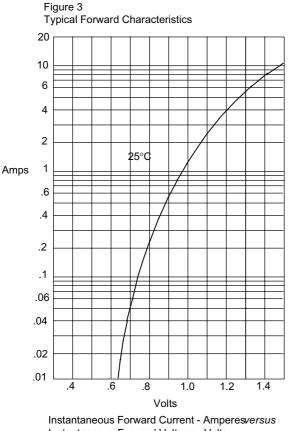
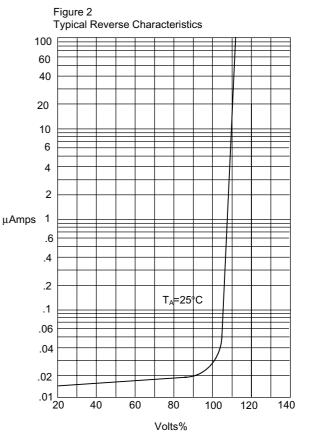


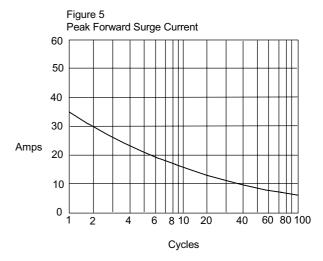
Figure 1. Derating Curve for Output Rectified Current



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 50Hz - Cycles

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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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

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