

Micro Commercial Components

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Features

- Glass Passivated Diode Construction
- High Temperature Soldering Guaranteed:260oC/10 Second
- Saves Space On Printed Circuit Board

Mechanical Data

- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)
 Case Material:Molded Plastic. UL Flammability
- Case Material:Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Teminals: Plated leads Solderable per MIL-STD-750, Method 2026
- Moisture Sensitiviy:Level 1 per J-STD-020C

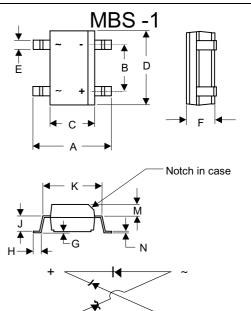
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse	Maximum RMS Voltage	Maximum DC Blocking
		Voltage		Voltage
MB05S	MB05S	50V	35V	50V
MB1S	MB1S	100V	70V	100V
MB2S	MB2S	200V	140V	200V
MB4S	MB4S	400V	280V	400V
MB6S	MB6S	600V	420V	600V
MB8S	MB8S	800V	480V	800V
MB10S	MB10S	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

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						
Maximum						
Instantaneous	V _F	1.0V	$I_{FM} = 0.4A;$			
Forward Voltage			T _A = 25 ⁰ C			
Maximum DC						
Reverse Current At	I _R	5uA	T _A = 25 [°] C			
Rated DC Blocking		100uA	T _A = 125 ^o C			
Voltage						
Typical Thermal	R _{thJA}	85°c/W ⁽¹⁾	per leg			
Resistance	R_{thJA}	70°C/W ⁽²⁾				
	R_{thJL}	20°C/W ⁽¹⁾				
Typical Junction	CJ	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						



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

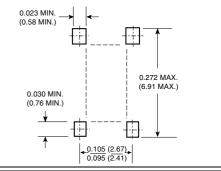


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Case Style

DIMENSIONS						
	INC HES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
A	.252	.275	6.40	7.00		
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		

Mounting Pad Layout

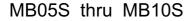


Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

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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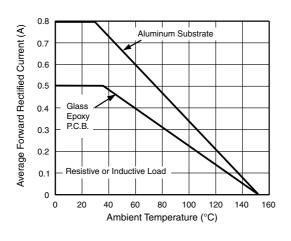
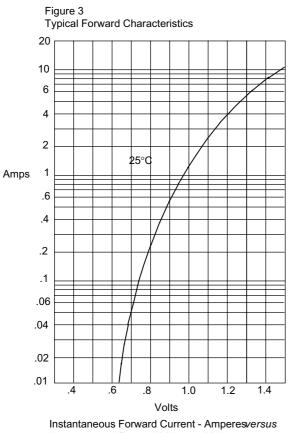
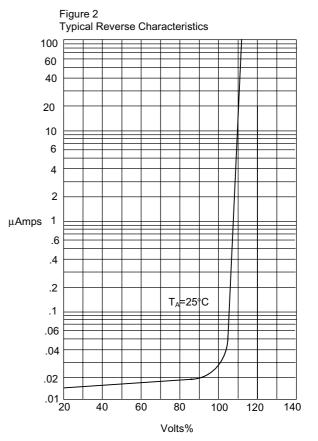


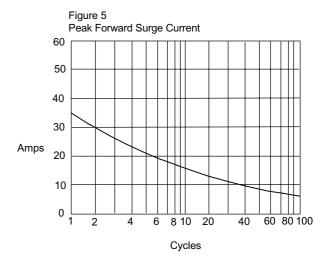
Figure 1. Derating Curve for Output Rectified Current



Instantaneous Forward Current - Amperesvers 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	

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