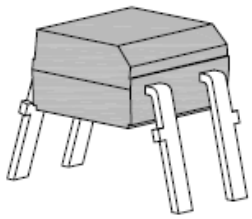
0.5A Glass Passivated Bridge Rectifier



MBM

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- Applicable for Automative Insertion
- High Temperature Soldering Guaranteed: 260˚C/10 seconds at 5lbs.(2.3kg) tension

Mechanical Data

Case:	MBM, molded plastic
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Plated leads solderable per MIL-STD-202, method 208
Polarity:	As marked on case
Mounting Position:	Any
Weight:	0.22 grams

Maximum Ratings And Electrical Characteristics (T_{amb}=25˚C)

Symbol	Description	MB1M	MB2M	MB4M	MB6M	MB8M	MB10M	Unit	Conditions
	Marking Code	MB1M	MB2M	MB4M	MB6M	MB8M	MB10M		
V_{RRM}	Max. Repetitive Peak Reverse Voltage	100	200	400	600	800	1000	V	
V_{RMS}	Max. RMS Voltage	70	140	280	420	560	700	V	
V_{DC}	Max. DC Blocking Voltage	100	200	400	600	800	1000	V	
$I_{F(AV)}$	Average Rectified Output Current	0.5						A	Note 1
		0.8						A	Note 2

Symbol	Description	MB1M	MB2M	MB4M	MB6M	MB8M	MB10M	Unit	Conditions
I_{FSM}	Non-Repetitive Peak Forward Surge Current	35						A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
I^2t	Rating for Fusing (t<8.3ms)	5.0						A^2s	
V_F	Forward Voltage per leg	1.0						V	I_F=0.4A
I_R	Max. Reverse DC Current At Rated DC Blocking Voltage per leg	5.0						µA	T_A=25°C
		100						µA	T_A=125°C
C_J	Typical Junction Capacitance per leg	13						pF	V_R=4V, f=1MHz
R_{thJA}	Typical Thermal Resistance per leg	85						°C / W	Note 1
		70							Note 2
R_{thJL}		20							Note 1
T_J,T_{STG}	Operating Junction and Storage Temperature Range	-55 to +150						° C	

Note: 1. On glass epoxy P.C.B. mounted on 0.05x0.05” (1.3x1.3mm) pads.
2. On aluminum substrate P.C.B. with an area of 0.8x0.8” (20x20mm) mounted on 0.05x0.05” (1.3x1.3mm) solder pad.

Typical Characteristics Curves

Fig.1- Output Rectified Current Derating Curve

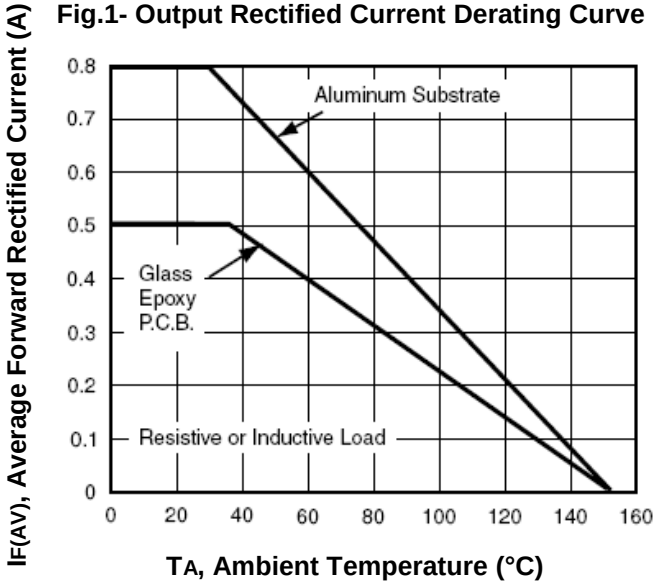


Fig.2-Max. Non-repetitive Peak Forward Surge Current per leg

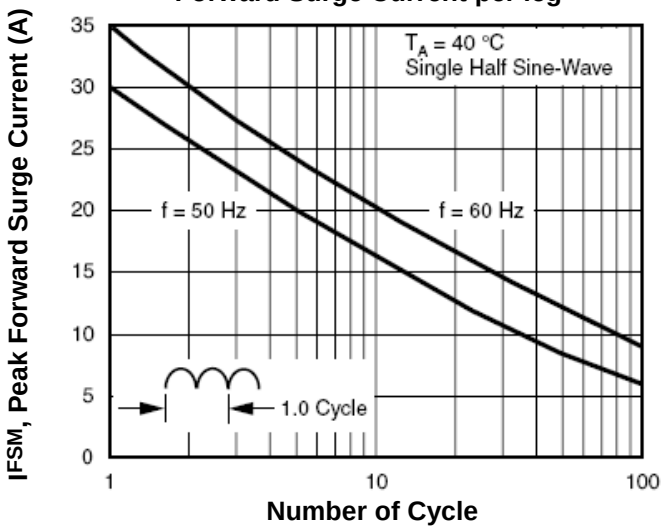


Fig.3-Typical Instantaneous Forward Characteristic per leg

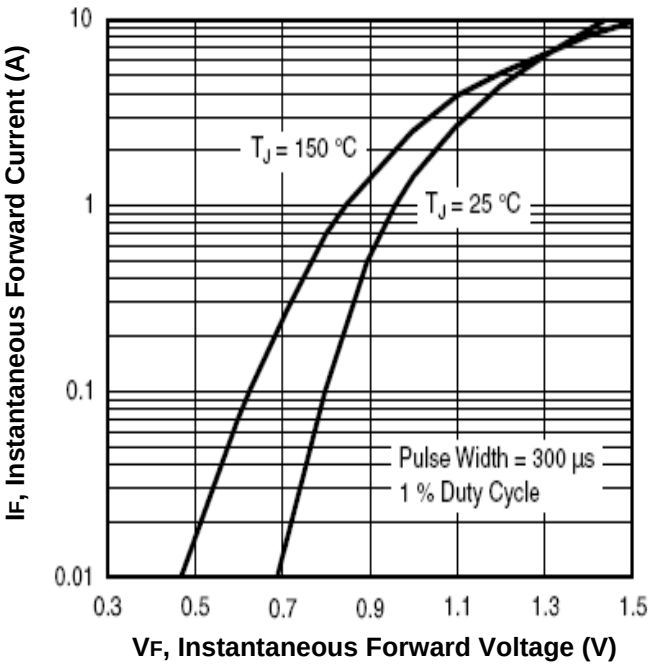


Fig.4-Typical Reverse Characteristics per leg

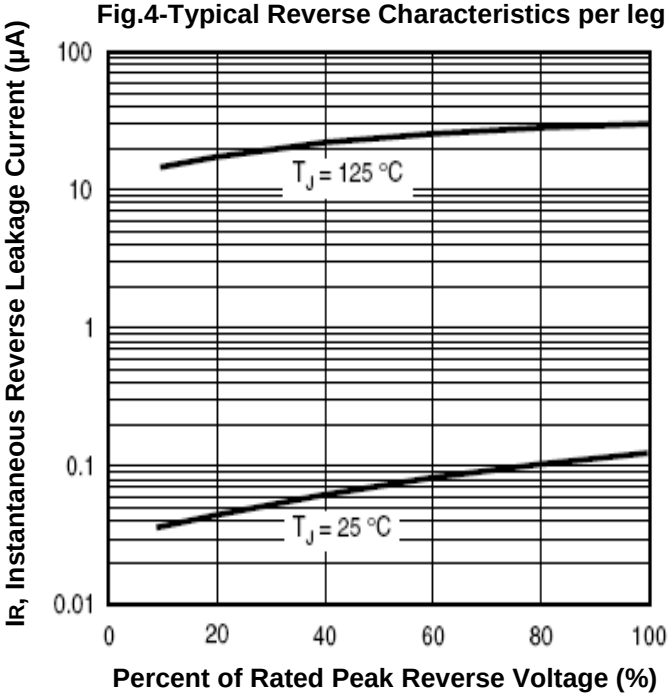
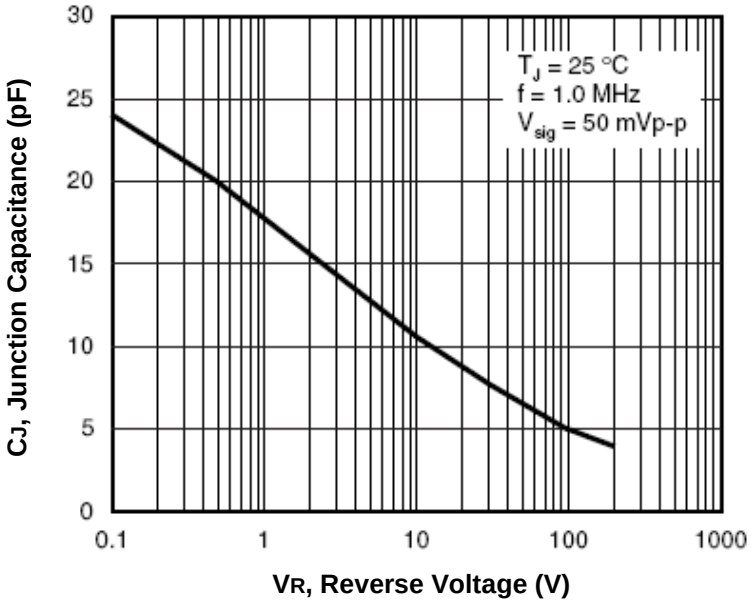
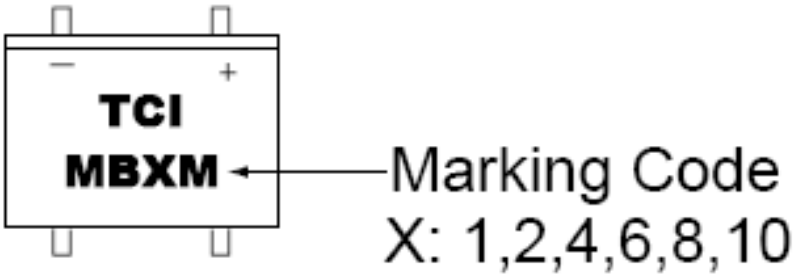


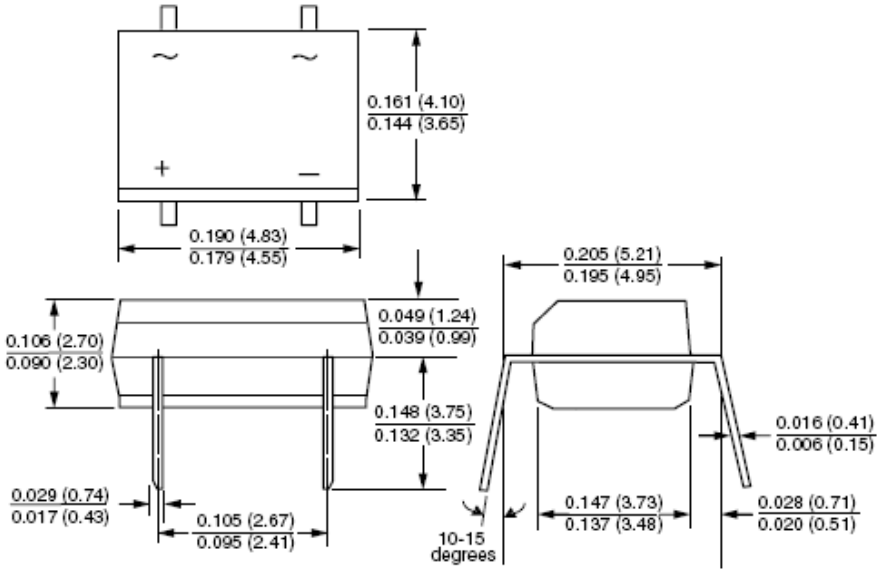
Fig.5-Typical Junction Capacitance per leg



Marking Information:



Dimensions in inch (mm)



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