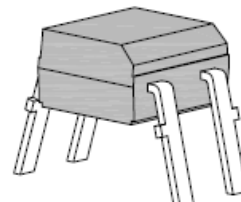


0.5A Glass Passivated Bridge Rectifier

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- Plastic Material – UL Flammability 94V-0
- RoHS Compliant



MBM



Mechanical Data

Case:	MBM, molded plastic
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 ($T_{amb}=25^{\circ}\text{C}$)

Symbol	Description	MB1M	MB2M	MB4M	MB6M	MB8M	MB10M	Unit	Conditions
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	T _A =40°C, Note 1
		0.8						A	T _A =40°C, Note 2
I_{FSM}	Non-Repetitive Peak Forward Surge Current	30						A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
V_F	Forward Voltage per leg	1.0						V	I _F =0.5A

0.5A Glass Passivated Bridge Rectifier

MB1M – MB10M

Symbol	Description	MB1M	MB2M	MB4M	MB6M	MB8M	MB10M	Unit	Conditions
I _R	Max. Reverse DC Current At Rated DC Blocking Voltage per leg	5.0						μA	T _A =25°C
		500						μA	T _A =125°C
I ² _t	Rating for Fusing (t<8.3ms)	3.73						A²s	
C _J	Typical junction capacitance per leg	25						pF	V _R = 4V, f=1MHz
R _{thJA}	Typical Thermal Resistance per leg	85						°C / W	Note 1
R _{thJL}		20							
T _J ,T _{STG}	Operating Junction and Storage Temperature Range	-55 to +150						° C	

Note: 1. Mounted on glass epoxy PC board with 1.3mm² solder pad.
2. Mounted on aluminum substrate PC board with 1.3mm² solder pad.

Typical Characteristics Curves

Fig.1- Output Current Derating Curve

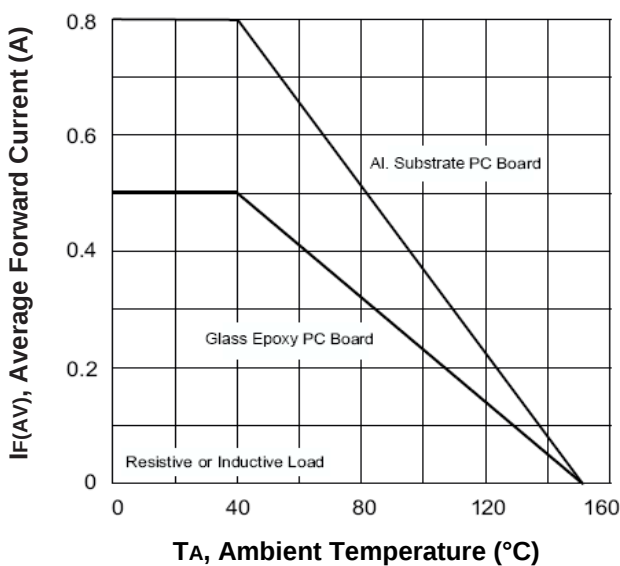
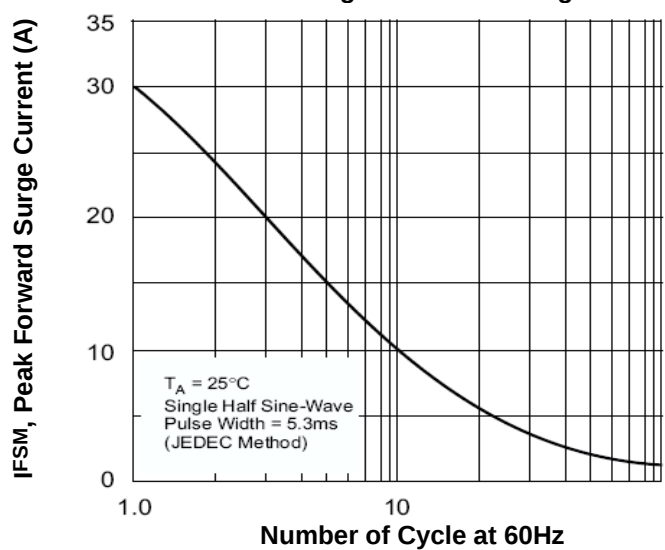


Fig.2-Max. Non-repetitive Peak Forward Surge Current Per Leg



0.5A Glass Passivated Bridge Rectifier

MB1M – MB10M

Fig.3-Typical Instantaneous Forward Characteristic Per Leg

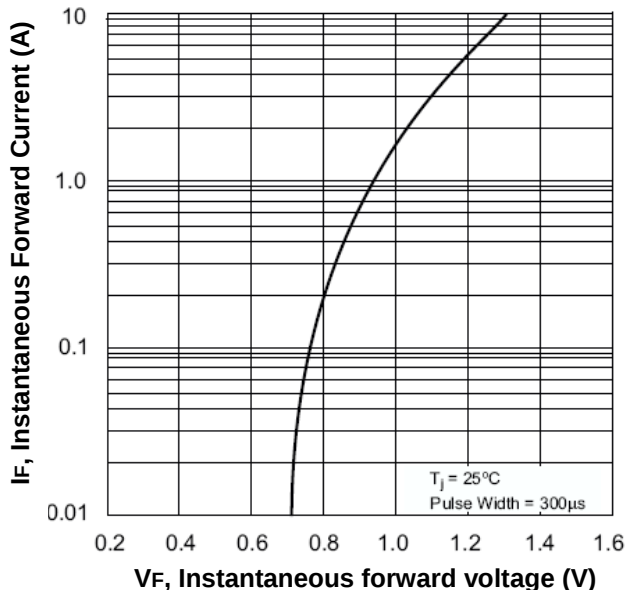


Fig.4-Typical Reverse Characteristics Per Leg

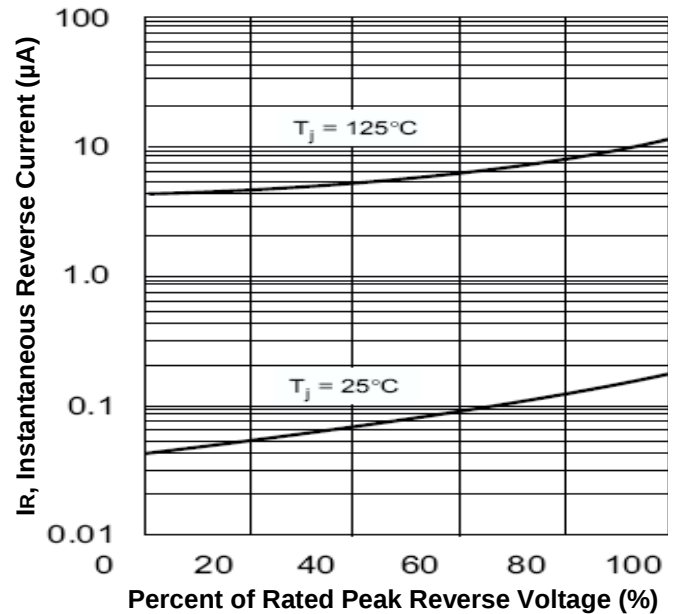
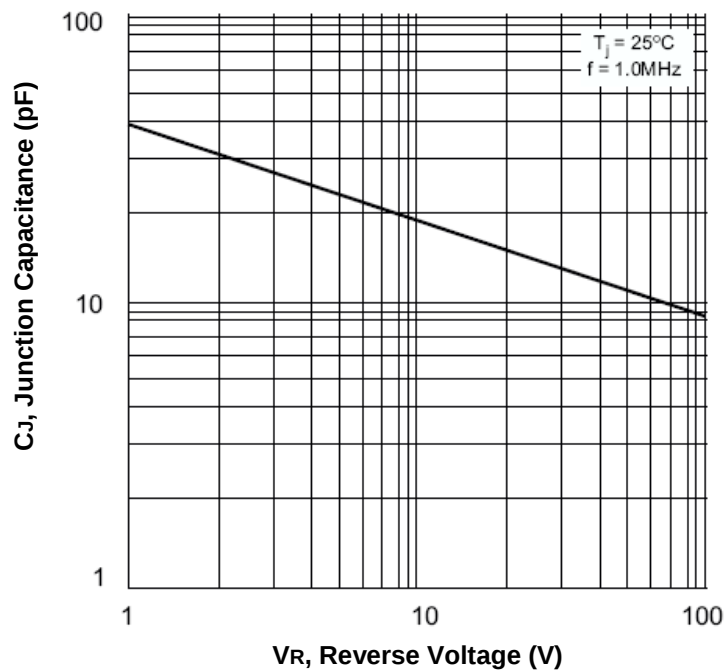


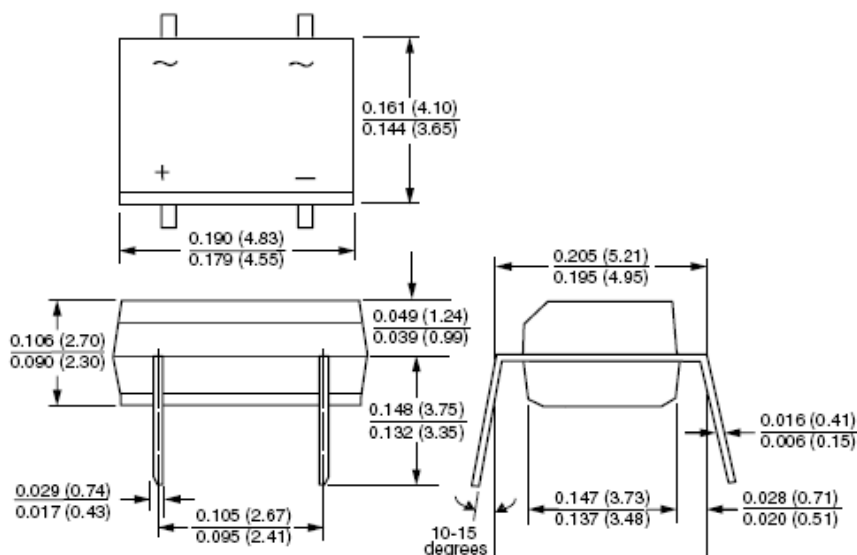
Fig.5-Typical Junction Capacitance



0.5A Glass Passivated Bridge Rectifier

MB1M – MB10M

Dimensions in inch (mm)



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