



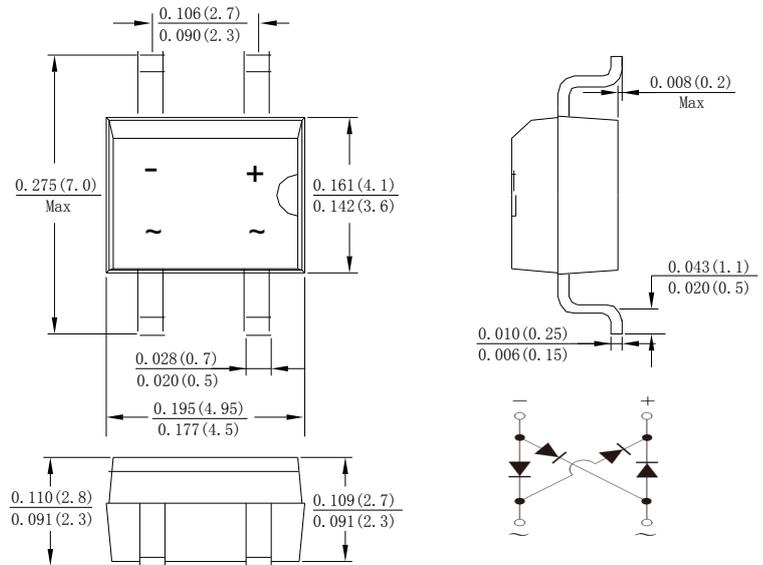
# MB1SU THRU MB10SU

Single Phase 1.0AMP Surface Mount Glass Passivated Bridge Rectifier

## Features

- Glass Passivated Die Construction
- Low leakage
- Ideal for printed circuit board
- Surge overload rating-35A peak
- Designed for Surface Mount Application
- Plastic Material-UL Flammability 94V-0

Case: MBS



dimensions in inches and (millimeters)

## Mechanical Data

- Case:Reliable low cost construction utilizing molded plastic technique
- Terminals:Plated Leads Solderable per MIL-STD-202,Method208
- Polarity:As Marked on Case
- Mounting Position:Any
- Marking:Type Number

## Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.  
Single Phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

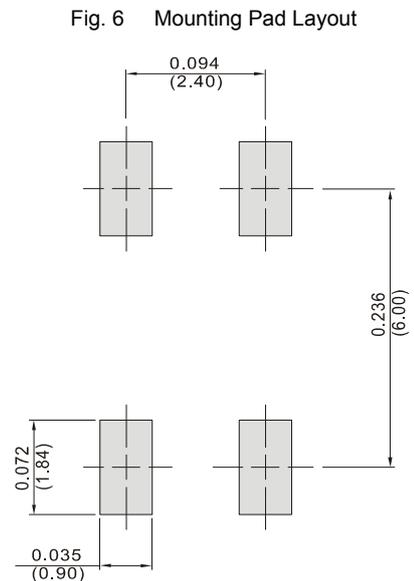
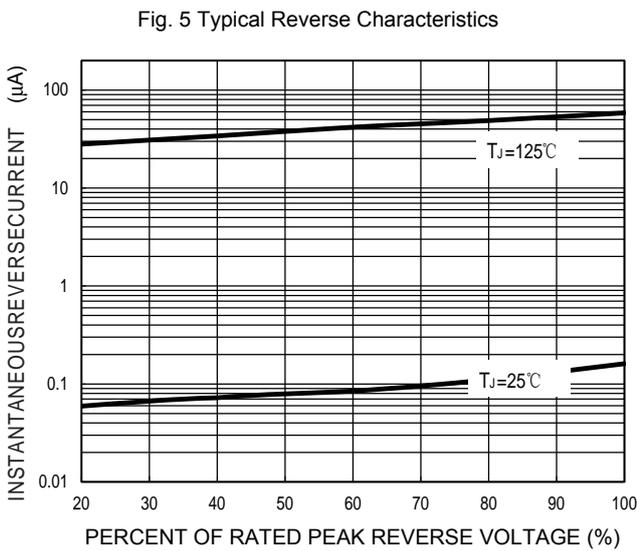
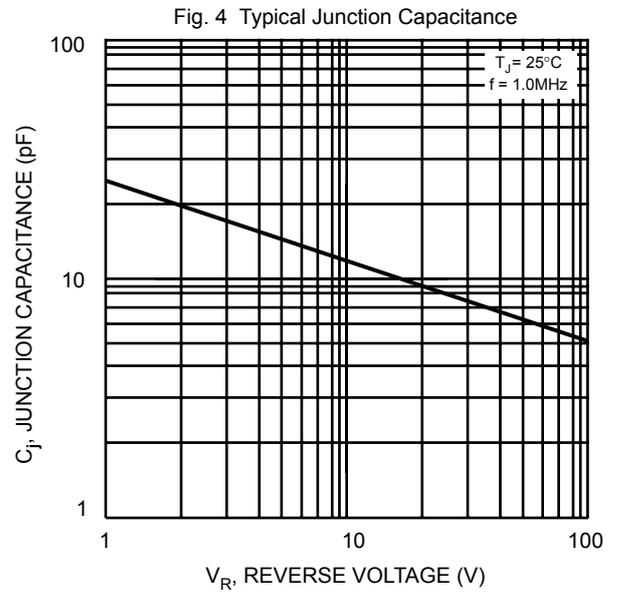
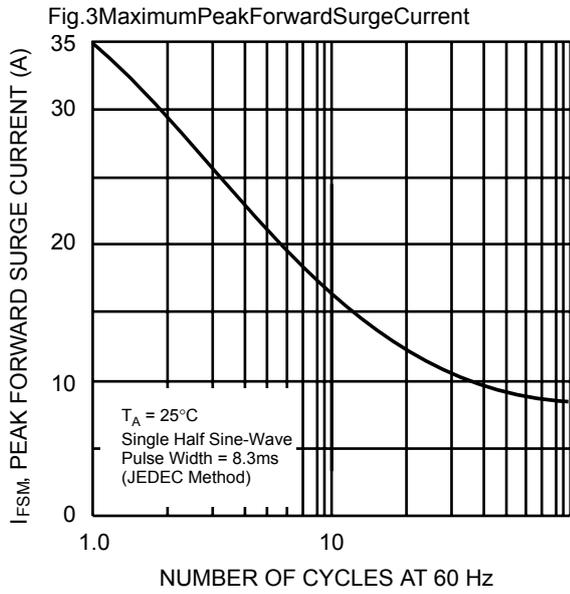
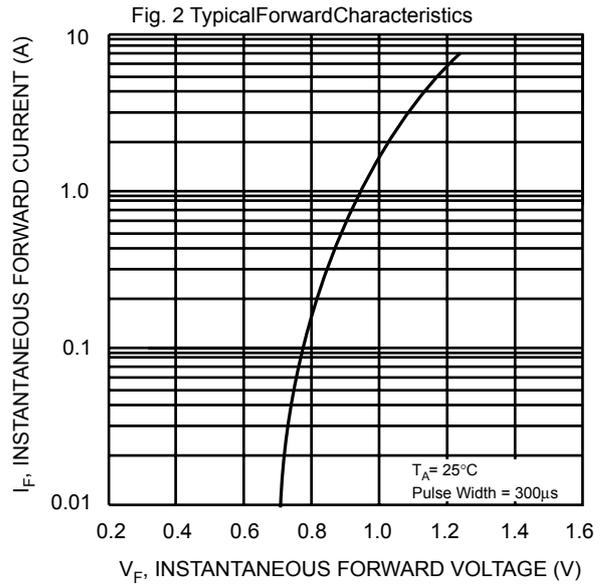
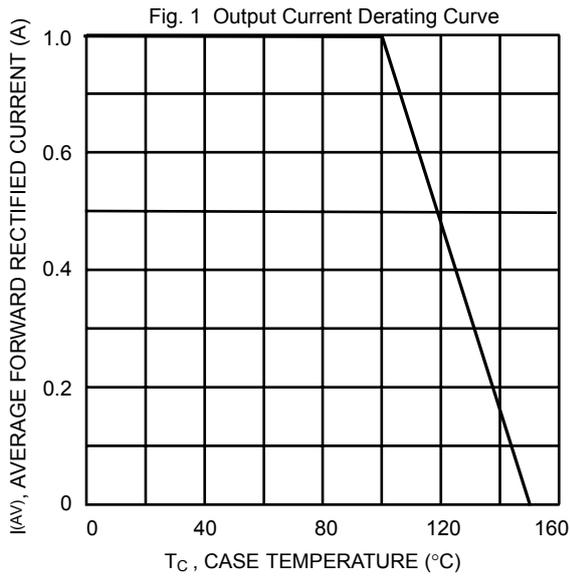
TYPE NUMBER	SYMBOL	MB1SU	MB2SU	MB4SU	MB6SU	MB8SU	MB10SU	UNITS
Peak Repetitive Reverse Voltage	$V_{RRM}$							
Working Peak Reverse Voltage	$V_{RWM}$	100	200	400	600	800	1000	V
DC Blocking Voltage	$V_{DC}$							
RMS Reverse Voltage	$V_{RMS}$	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@ $T_c=100^\circ\text{C}$	$I_{F(AV)}$	1.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	35						A
$I^2t$ Rating for Fusing ( $t < 8.3\text{ms}$ )	$I^2t$	5.084						$\text{A}^2\text{s}$
Forward Voltage per element @ $I_F=0.5\text{A}$ @ $I_F=1.0\text{A}$	$V_{FM}$	0.95 1.0						V
Peak Reverse Current @ $T_J=25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_J=125^\circ\text{C}$	$I_R$	5.0 100						$\mu\text{A}$
Typical Junction Capacitance (Note 2)	$C_J$	15						pF
Typical Thermal Resistance	$R_{\theta JA}$	60						$^\circ\text{C/W}$
	$R_{\theta JL}$	16						
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55to+150						$^\circ\text{C}$

Note:1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad.  
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



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