

# Bridge Rectifier

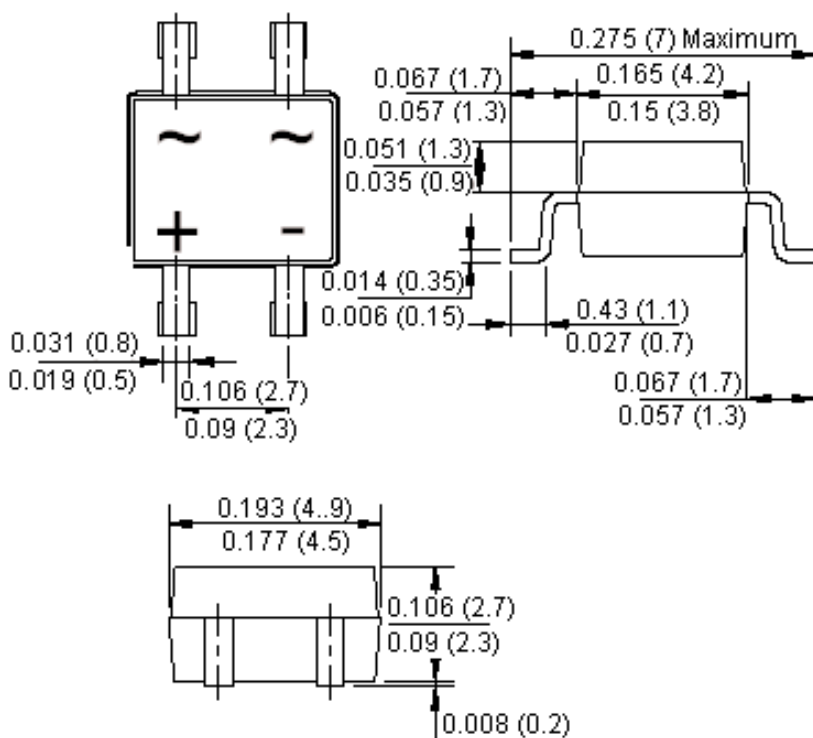


## Features:

- Glass passivated.
- Surface mount.
- Ideal for printed circuit board.
- Reliable low cost construction utilizing moulded plastic technique results in inexpensive product.
- Lead tin plated copper.

Reverse Voltage - 100 V  
Forward Current - 0.8 Ampere

## MBS



Dimensions : Inches (Millimetres)

## Mechanical Data

Polarity : Symbol moulded on body.  
Weight : 0.0044 oz, 0.125 g.  
Mounting position : Any.

# Bridge Rectifier



## Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

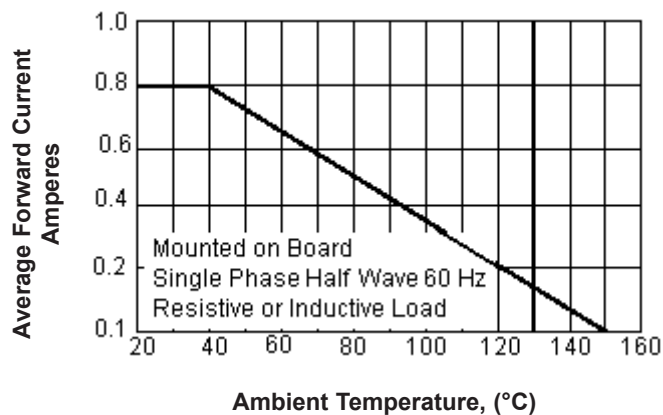
For capacitive load, derate current by 20%.

Characteristics	Symbol	MB1S	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	100	V
Maximum RMS Voltage	$V_{RMS}$	70	
Maximum DC Blocking Voltage	$V_{DC}$	100	
Maximum Average Forward Rectified Current (Note 1) at $T_A = 40^\circ\text{C}$	$I_{(AV)}$	0.8	A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Super Imposed on Rated Load (JEDEC Method)	$I_{FSM}$	30	
Peak Forward Voltage at 0.8 A dc	$V_F$	1.1	V
Maximum DC Reverse Current at $T_J = 25^\circ\text{C}$ at Rated DC Blocking Voltage at $T_J = 125^\circ\text{C}$	$I_R$	5 500	$\mu\text{A}$
Typical Junction Capacitance Per Element (Note 2)	$C_J$	15	pF
Typical Thermal Resistance (Note 3)	$R_{\theta JC}$	75	$^\circ\text{C}/\text{W}$
Operating Temperature Range	$T_J$	-55 to +150	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$		

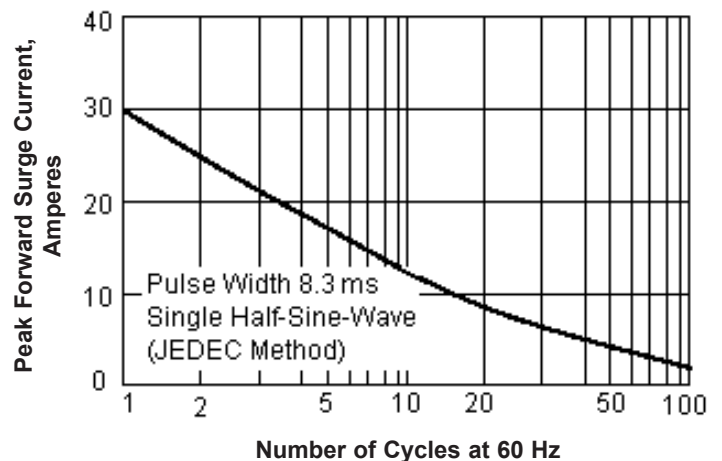
- Notes :**
1. Mounted on P C board.
  2. Measured at 1 MHz and applied reverse voltage of 4 V dc.
  3. Thermal resistance junction to case.

## Rating and Characteristics Curves

Forward Current Derating Curve



Maximum Non-Repetitive Surge Current

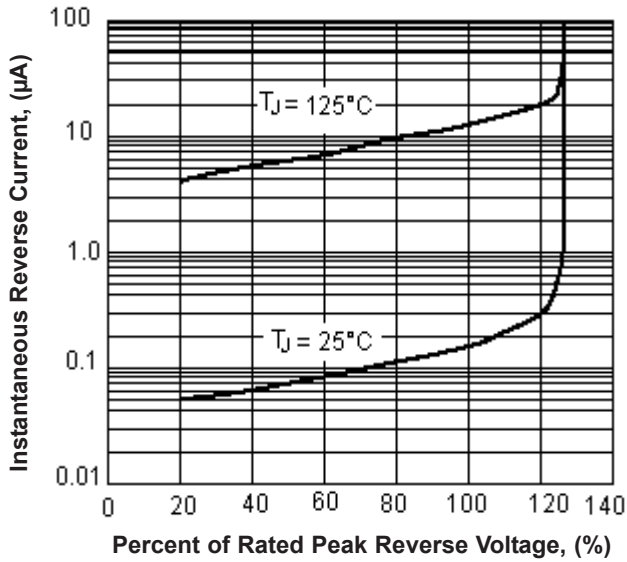


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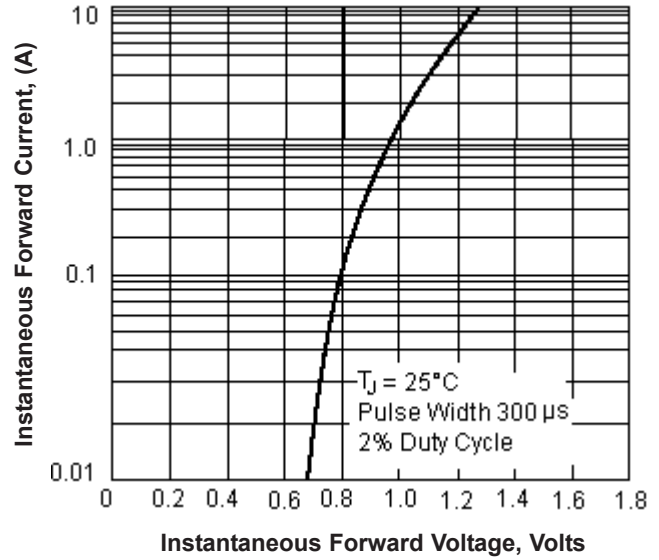


## Rating and Characteristics Curves

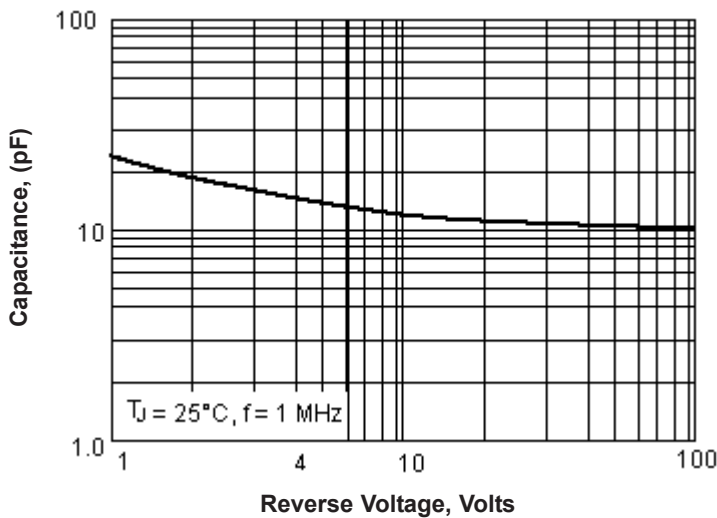
Typical Reverse Characteristics



Typical Forward Characteristics



Typical Junction Capacitance



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