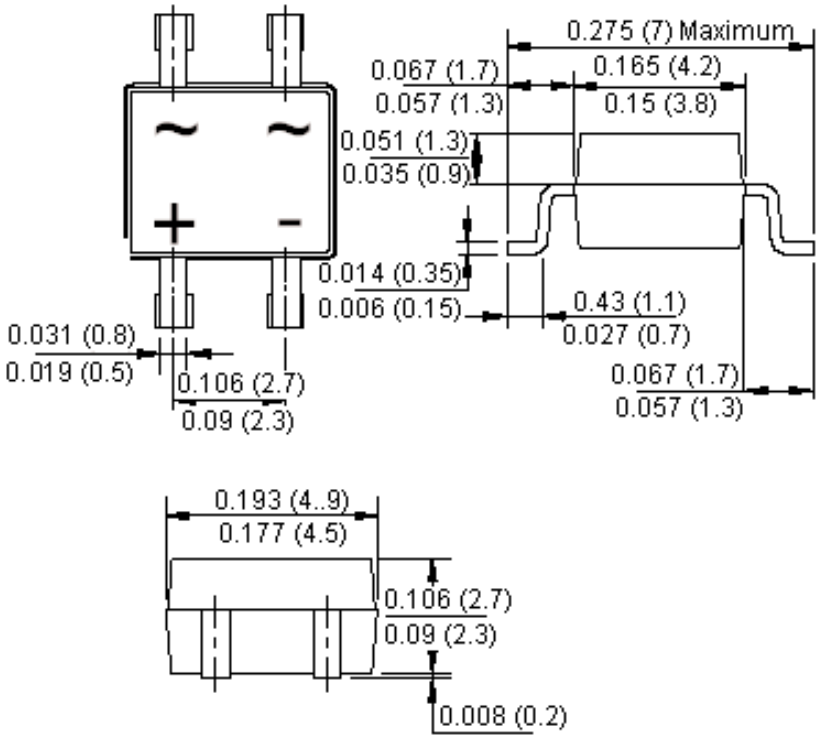
Bridge Rectifier

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 - 50 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.

Maximum Ratings and Electrical Characteristics

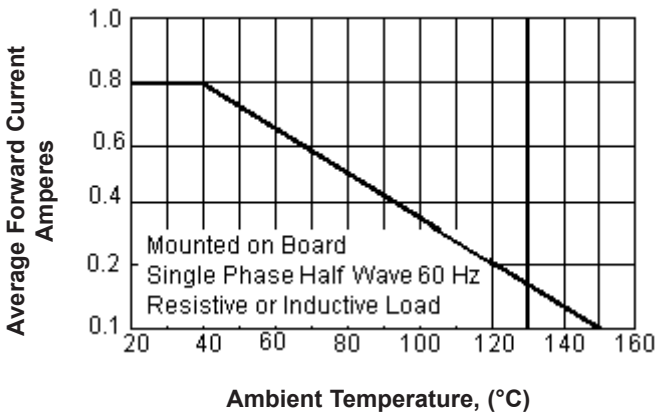
Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristics	Symbol	MB05S	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	V
Maximum RMS Voltage	V_{RMS}	35	
Maximum DC Blocking Voltage	V_{DC}	50	
Maximum Average Forward Rectified Current (Note 1) at T_A = 40°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°C at Rated DC Blocking Voltage at T_J = 125°C	I_R	5 500	µA
Typical Junction Capacitance Per Element (Note 2)	C_J	15	pF
Typical Thermal Resistance (Note 3)	$R_{\theta JC}$	75	°C/W
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}		

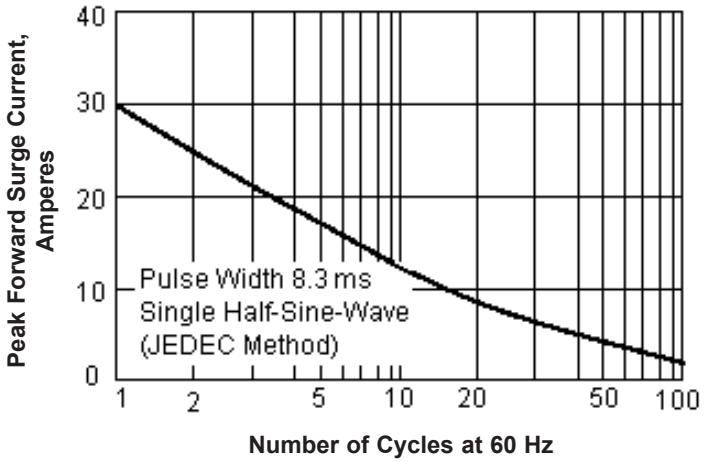
Notes : 1. Mounted on P C board.
2. Measured at 1 MHz and applied reverse voltage of 4 V dc.
3. Thermal resistance junction to case.

Rating and Characteristics Curves

Forward Current Derating Curve

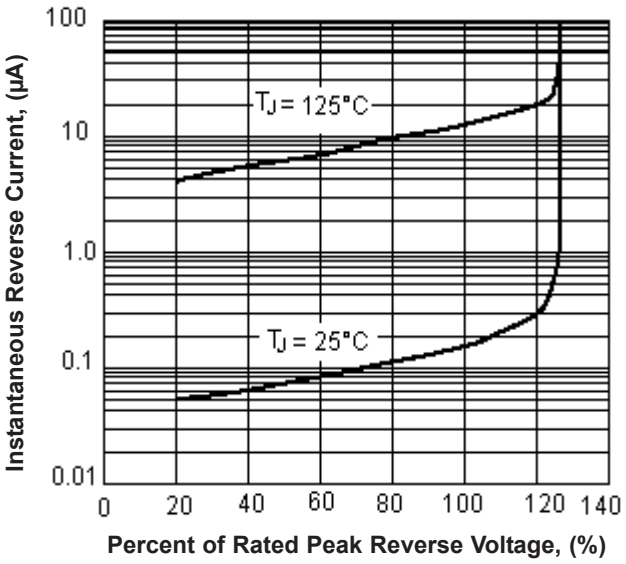


Maximum Non-Repetitive Surge Current

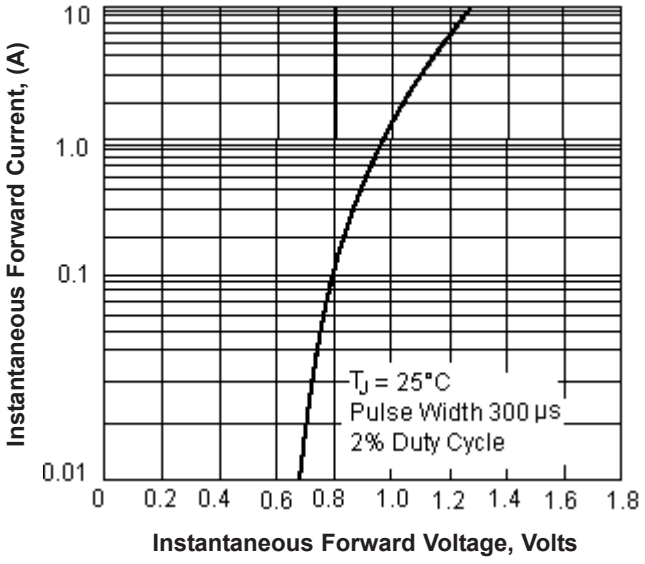


Rating and Characteristics Curves

Typical Reverse Characteristics



Typical Forward Characteristics



Typical Junction Capacitance