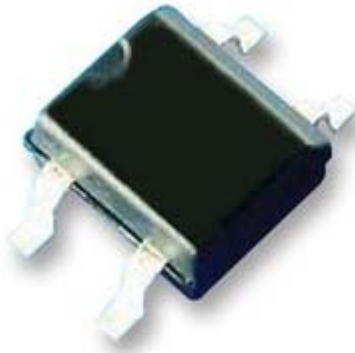


# MB Series Bridge Rectifiers



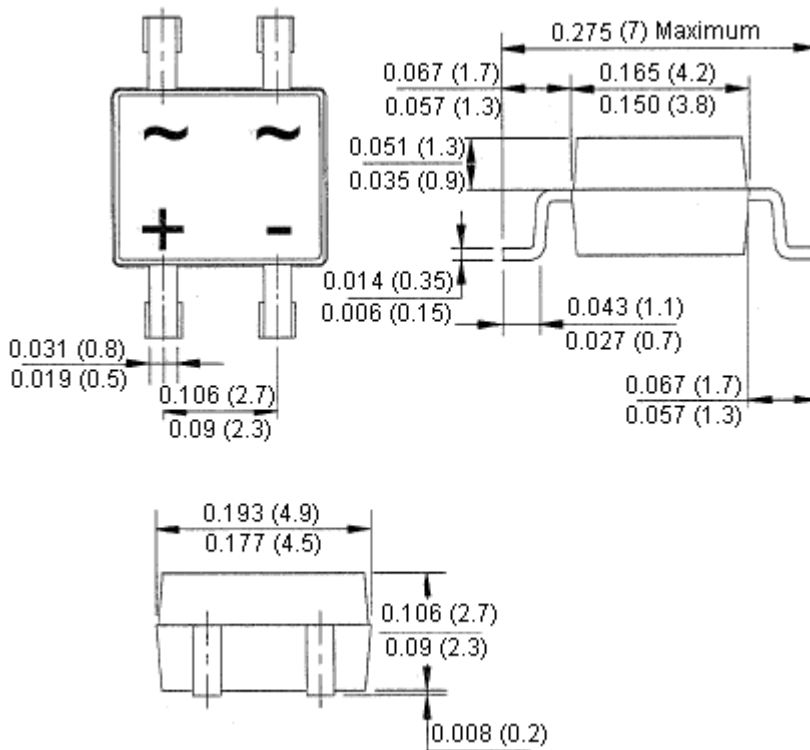
## Surface Mount



### Features:

- Rating to 1,000 V PRV
- Ideal for printed circuit board
- Lead tin plated copper

Reverse Voltage - 50 to 1,000 Volts  
Forward Current - 0.8 Ampere



Dimensions : Inches (Millimetres)

### Mechanical Data

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

# MB Series Bridge Rectifiers



## Surface Mount

### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

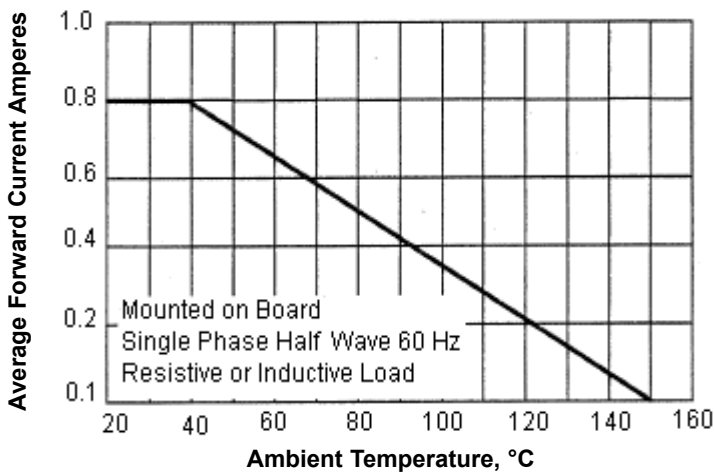
Single phase, half wave, 60 Hz, resistive or inductive load

For capacitive load, derate current by 20%

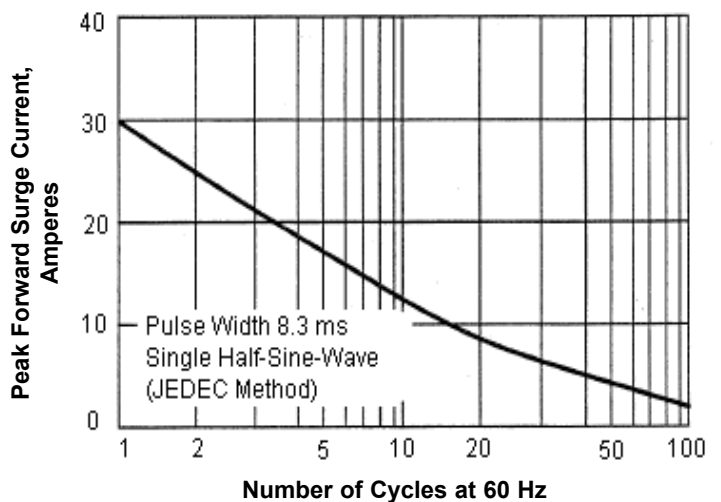
Characteristics	Symbol	MB05S	MB1S	MB2S	MB4S	MB6S	MB8S	MB10S	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1,000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1,000	
Maximum Average Forward Rectified 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	$I_{FSM}$	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							$^\circ\text{C/W}$
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

**Forward Current Derating Curve**



**Maximum Non-Repetitive Surge Current**

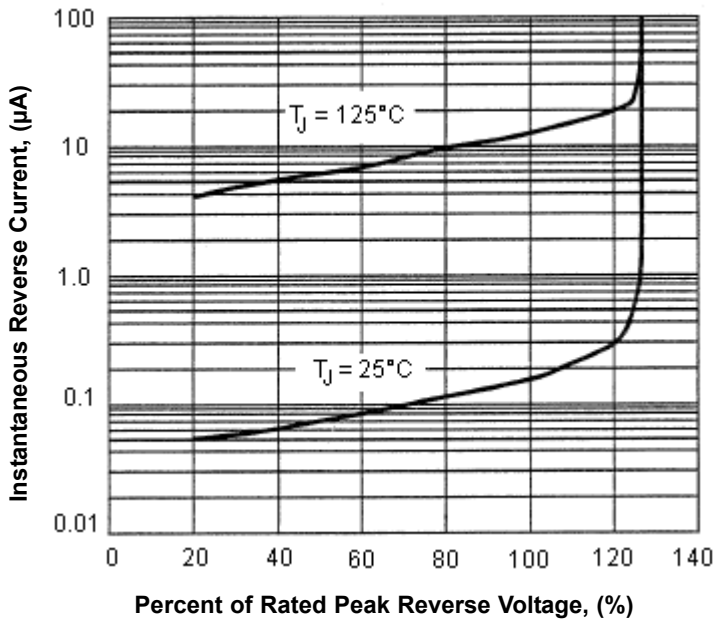


# MB Series Bridge Rectifiers

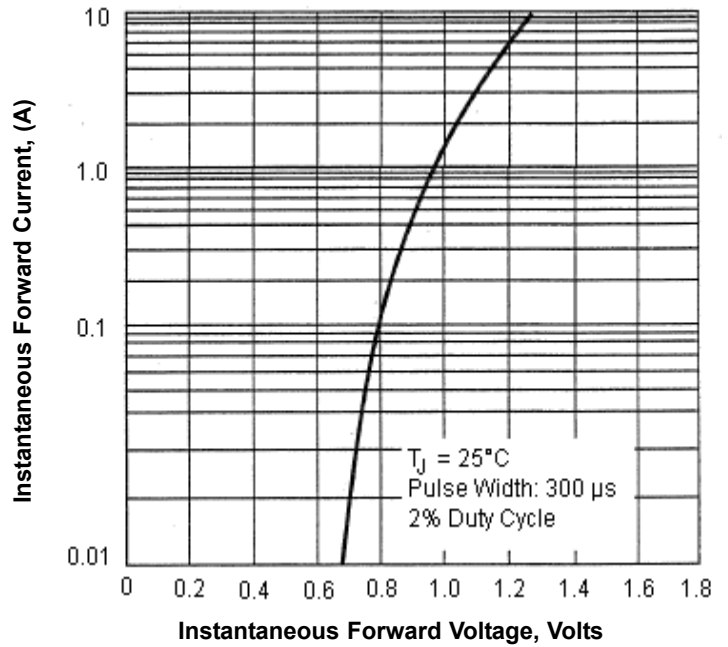


## Surface Mount

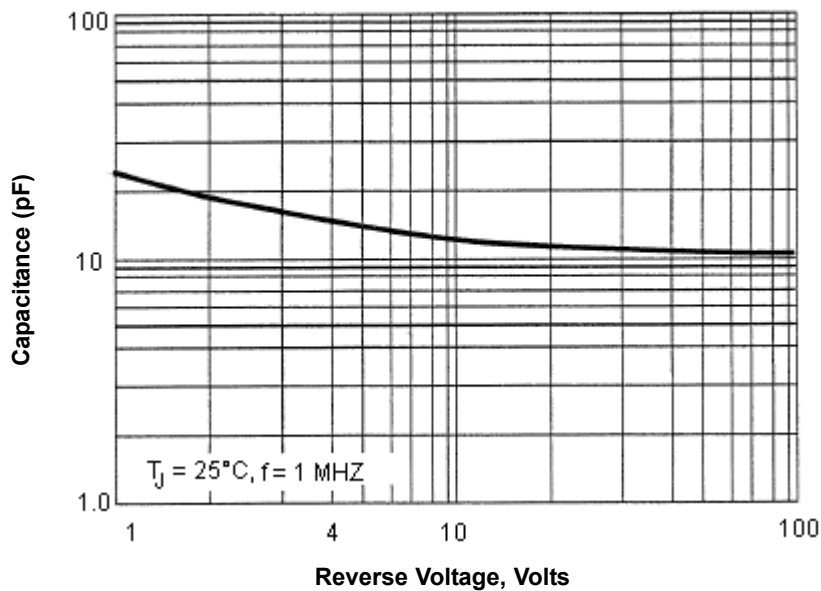
Typical Reverse Characteristics



Typical Forward Characteristics



Typical Junction Capacitance



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