

SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS MB1S THRU MB10S 100to 1000 V 0.8 A

FEATURES

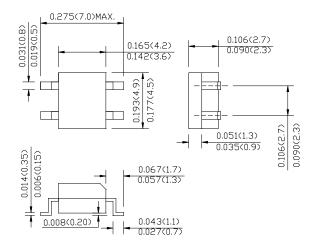
- · Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead in plated copper

MECHANICAL DATA

Polarity: Symbol molded on bodyWeight: 0.0044 ounces, 0.125 grams

Mounting position: Any

MD-1S/MB-S



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

	Symbols	MB1S	MB2S	MB4S	MB6S	MB8S	MB10S	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current (Note1) @T _A =40℃	I _(AV)	0.8						Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load	IFSM	30						Amp
Maximum DC Forward Voltage drop per element at 0.4A DC	V _F	1.0						Volts
Maximum DC Reverse Current at rated @ T_A =25°C DC Blocking Voltage Per Element @ T_A =125°C	I _R	5 500						uАmp
Typical Junction Capacitance per element (Note2)	CJ	15						pF
Typical Thermal Resistance (Note3)	R⊕JA	75						°C/W
Operating Temperature Range	T_{J}	-55 to +150						℃
Storage Temperature Range	T _{STG}	-55 to +150						$^{\circ}$

NOTES:

- 1. Mounted on P.C. Board.
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. Thermal Resistance Junction to Ambient.



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RATINGS AND CHARACTERISTIC CURVES (MB1S THRU MB10S)



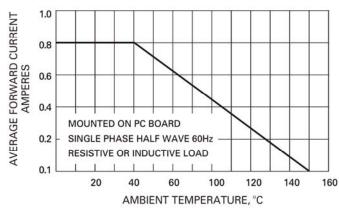


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

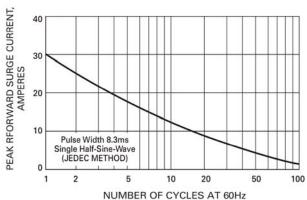


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

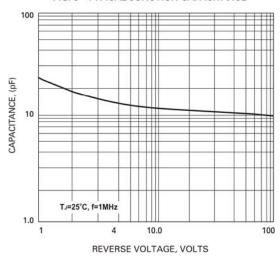


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

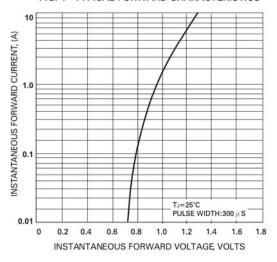


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS

