

MB1S thru MB10S

CURRENT 0.5 Amperes

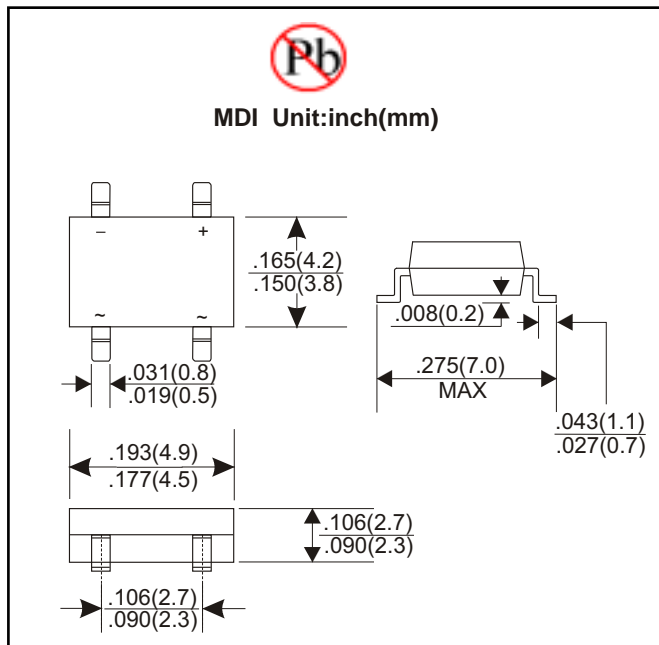
VOLTAGE 100 to 1000 Volts

MINI SURFACE MOUNT GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

FEATURES

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

- Polarity : Symbol molded on body
- Weight : 0.0044 ounces, 0.125 grams
- Mounting position : Any



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%

CHARACTERISTICS	SYMBOL	MB1S	MB2S	MB4S	MB6S	MB8S	MB10S	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current (Note 1) @TA=40 °C	I(AV)	0.5						A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	I _{FSM}	30						A
Maximum Forward Voltage at 0.25A DC	V _F	1						V
Maximum DC Reverse Current @T _J =25 °C at Rated DC Blocking Voltage @T _J =125 °C	I _R	5 500						μA
I ² t Rating for fusing (t < 8.3ms)	I ² t	3.7						A ² S
Typical Junction Capacitance per element (Note 2)	C _J	15						pF
Typical Thermal Resistance (Note 3)	R _{θJA}	75						°C/W
Operating Temperature Range	T _J	-55 to + 150						°C
Storage Temperature Range	T _{STG}	-55 to + 150						°C

NOTES : 1.Mounted on P.C. board.

2.Measured at 1.0MHz and applied reverse voltage of 0.25V DC.

3.Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES

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