

MDXM SERIES

MINIATURE SINGLE-PHASE BRIDGE RECTIFIER

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MD1M THRU MD7M

MINIATURE GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER



康比電子
HORNBY ELECTRONIC

REVERSE VOLTAGE: 50 to 1000 VOLTS

FORWARD CURRENT: 0.5 AMPERE

FEATURES

- Glass passivated chip junction
- Low forward voltage drop
- High surge overload rating of 30 Amperes peak
- Ideal for printed circuit board
- High temperature soldering guaranteed:
260°C for 10 seconds

MECHANICAL DATA

Case: Molded plastic, MD-M

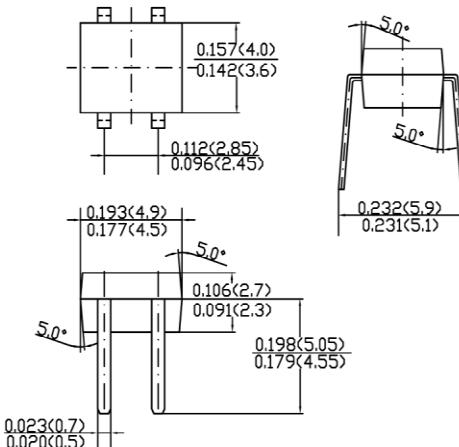
Epoxy: UL 94V-O rate flame retardant

Terminals: Leads solderable per MIL-STD-202,
method 208 guaranteed

Mounting position: Any

Weight: 0.008ounce, 0.22gram

MD-M



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25° ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

	Symbols	MD1M	MD2M	MD3M	MD4M	MD5M	MD6M	MD7M	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current (see Fig. 1) on glass-epoxy P.C.B (Note 2) on aluminum substrate (Note 3)	I_(AV)				0.5				Amp
					0.8				
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}			30					Amp
Maximum Forward Voltage at 0.4A DC and 25°	V_F			1.0					Volts
Maximum Reverse Current at T_A=25° at Rated DC Blocking Voltage T_A=125°	I_R			5.0					uAmp
				500					
Typical Junction Capacitance (Note 1)	C_J			13					pF
Typical Thermal Resistance (Note 3)	R_{0JA}			70					/W
Typical Thermal Resistance (Note 2)	R_{0JL}			20					/W
Operating and Storage Temperature Range	T_J, T_{stg}			-55 to +150					

NOTES:

1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.

2- On glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3mm) pads

3- On aluminum substrate P.C.B. with an area of 0.8" x 0.8" (20 x 20mm) mounted on 0.05 x 0.05" (1.3 x 1.3mm) solder pad

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RATINGS AND CHARACTERISTIC CURVES

Fig. 1 - Derating Curve for Output Rectified Current

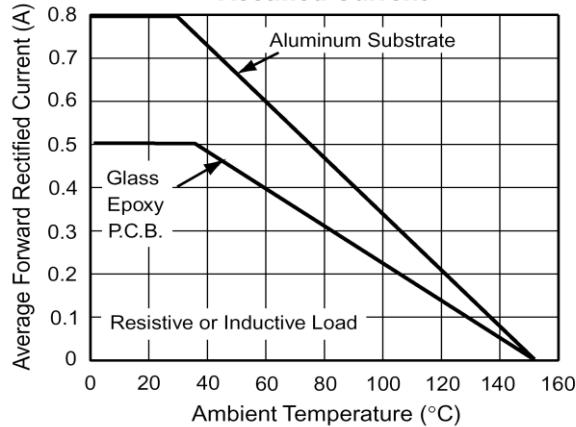


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg

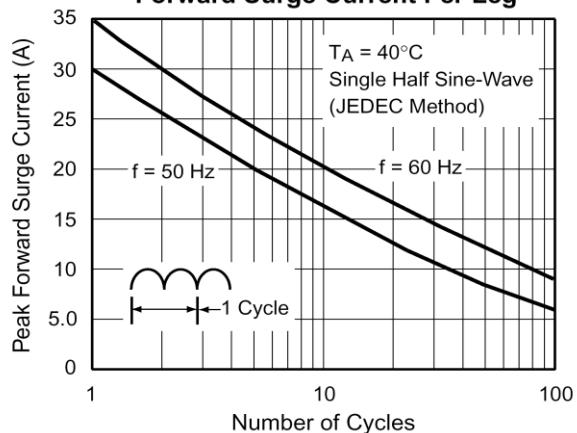


Fig. 3 - Typical Forward Voltage Characteristics Per Leg

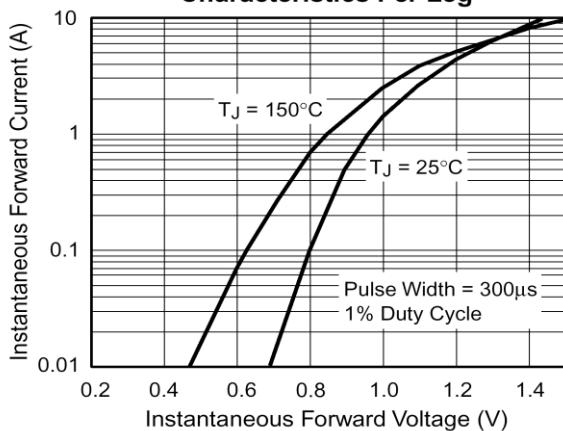


Fig. 4 - Typical Reverse Leakage Characteristics Per Leg

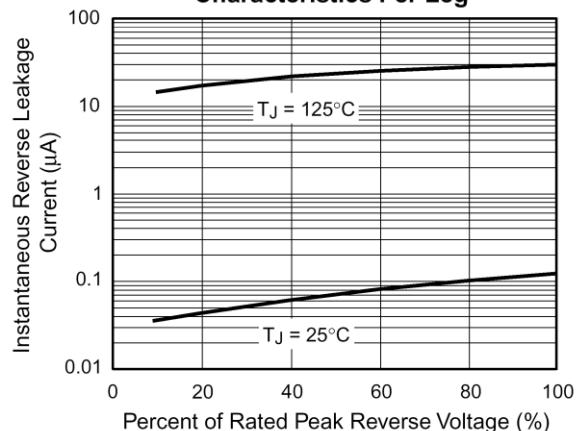


Fig. 5 - Typical Junction Capacitance Per Leg

