



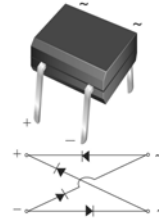
查询"MF10M"供应商

MF2M thru MF10M / MF2S thru MF10S

Miniature Glass Passivated Single-Phase Bridge Rectifiers
Reverse Voltage 200 to 1000 Volts Forward Current 1.0 Ampere

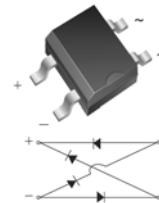
Features

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Glass passivated chip junctions
- ◆ High surge overload rating: 40A peak
- ◆ Saves space on printed circuit boards
- ◆ Recommended for non-automotive applications



Mechanical Data

- ◆ Case: MFxM (MBM), MFxS (MBS)
Molded plastic body over passivated junctions
- ◆ Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- ◆ Mounting Position: Any
- ◆ Weight: 0.078 oz., 0.22 g



Maximum Ratings and Electrical Characteristics

($T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbols	MF2M MF2S	MF4M MF4S	MF6M MF6S	MF8M MF8S	MF10M MF10S	Units
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	200	400	600	800	1000	Volts
Maximum average forward output rectified current (see Fig.1)	$I_{F(AV)}$	1.0					Amp
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	40.0					Amps
Rating for fusing ($t < 8.3\text{ms}$)	I^2t	5.0					A^2sec
Maximum instantaneous forward voltage drop per leg at 0.4A	V_F	1.1					Volt
Maximum DC reverse current at rated DC blocking voltage per leg $T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$	I_R	5.0 100					μA
Typical thermal resistance per leg	$R_{\theta JA}$ $R_{\theta JA}$ $R_{\theta JL}$	85 ⁽¹⁾ 70 ⁽²⁾ 20 ⁽¹⁾					$^\circ\text{C/W}$
Typical junction capacitance per leg ⁽³⁾	C_j	13					pF
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150					$^\circ\text{C}$

- Notes:**
1. On glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3mm) pads
 2. 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
 3. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

RATINGS AND CHARACTERISTIC CURVES

(T_A = 25°C unless otherwise noted)

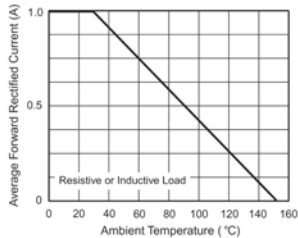


Figure 1. Derating Curve for Output Rectified Current

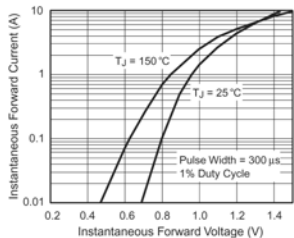


Figure 3. Typical Forward Voltage Characteristics Per Leg

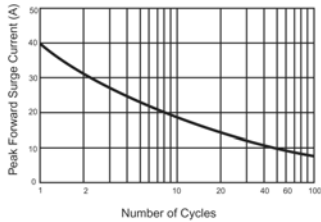


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

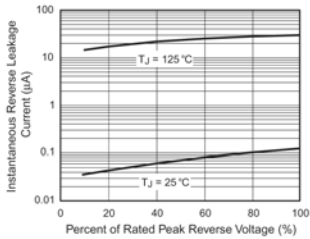


Figure 4. Typical Reverse Leakage Characteristics Per Leg

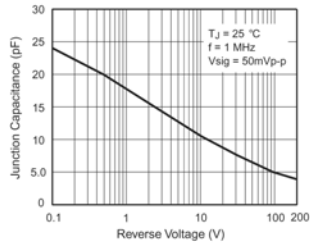
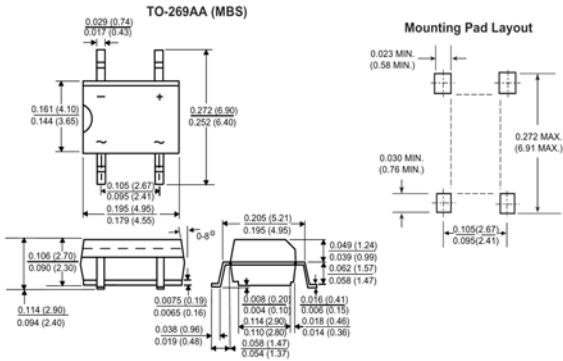
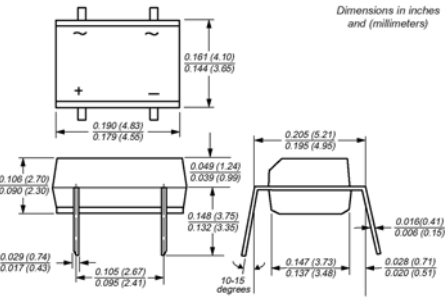


Figure 5. Typical Junction Capacitance Per Leg

MBM



Package outline dimensions in inches (millimeters)