

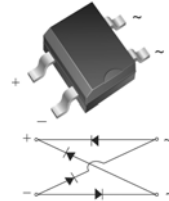


RMB2S thru RMB4S

Miniature Glass Passivated Fast Recovery Surface Mount Bridge Rectifiers
Reverse Voltage 200 to 400 Volts Forward Current 0.5 Ampere

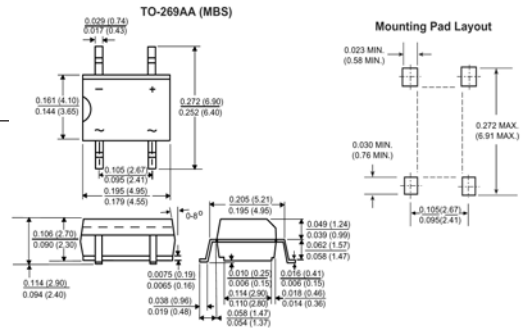
Features

- ◆ Plastic package has UL Flammability Classification 94V-0
- ◆ Glass passivated chip junctions
- ◆ Saves space on printed circuit boards
- ◆ Fast recovery, low switching loss
- ◆ High temperature soldering guaranteed:
260°C/10 seconds at 5 lbs. (2.3kg) tension



Mechanical Data

- ◆ Case: Molded plastic body over passivated junctions
- ◆ Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- ◆ Polarity: Polarity symbols marked on body
- ◆ Mounting Position: Any
- ◆ Weight: 0.078 oz, 0.22g



Package outline dimensions in inches (millimeters)

Maximum Ratings and Electrical Characteristics

(T_A=25°C unless otherwise noted)

Parameter	Symbols	RMB2S	RMB4S	Units
Maximum repetitive peak reverse voltage	V _{RRM}	200	400	Volts
Maximum RMS voltage	V _{RMS}	140	280	Volts
Maximum DC blocking voltage	V _{DC}	200	400	Volts
Maximum average forward output rectified current at T _A =30°C on glass-epoxy P.C.B. on aluminum substrate	I _{F(AV)}	0.5 ⁽¹⁾ 0.8 ⁽²⁾		Amp
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30.0		Amps
Rating for fusing (t < 8.3ms)	Pt	5.0		A ² sec
Maximum instantaneous forward voltage drop per leg at 0.4A	V _F	1.0		Volt
Maximum DC reverse current at T _A = 25°C rated DC blocking voltage per leg T _A = 125°C	I _R	5.0 100		μA
Maximum reverse recovery time at I _F =0.5A, I _R =1.0A, I _{tr} =0.25A	t _{rr}	150		nS
Typical thermal resistance per leg	R _{θJA} R _{θJA} R _{θJL}	85 ⁽¹⁾ 70 ⁽²⁾ 20 ⁽¹⁾		°C/W
Typical junction capacitance per leg at 4.0V, 1.0MHz	C _J	13		pF
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150		°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

RATINGS AND CHARACTERISTIC CURVES

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

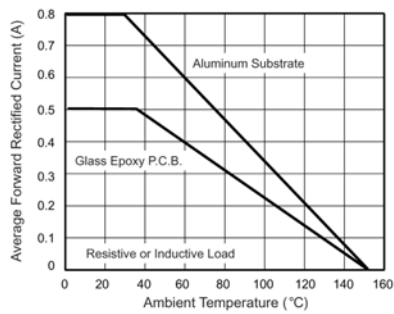


Figure 1. Maximum Forward Current Derating Curve

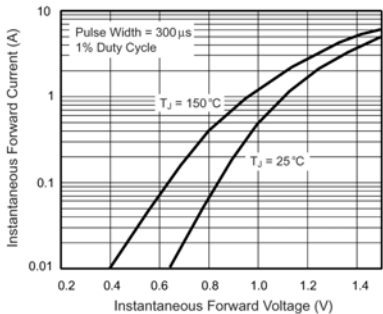


Figure 3. Typical Instantaneous Forward Characteristics Per Leg

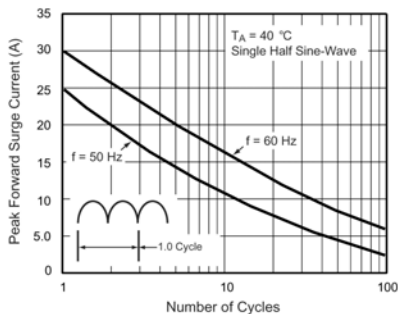


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

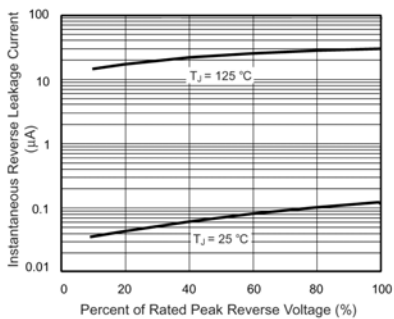


Figure 4. Typical Reverse Leakage Characteristics Per Leg

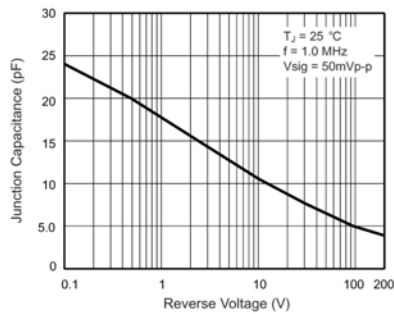


Figure 5. Typical Junction Capacitance Per Leg