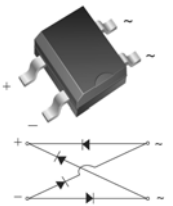
RMB2S thru RMB4S

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

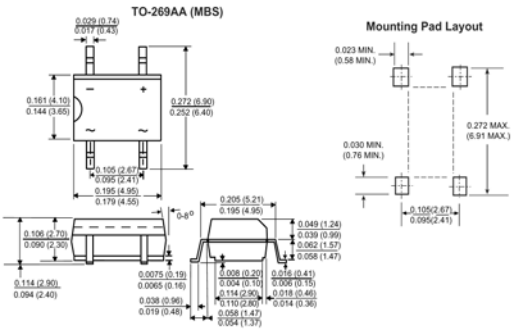
Features

- 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 voltag	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)	I^2t	5.0		A^2sec
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		uA
Maximum reverse recovery time at I_F=0.5A, I_R=1.0A, I_{rr}=0.25A	t_{rr}	150		nS
Typical thermal resistance per leg	$R_{\theta JA}$ $R_{\theta JA}$ $R_{\theta JL}$	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°C unless otherwise noted)

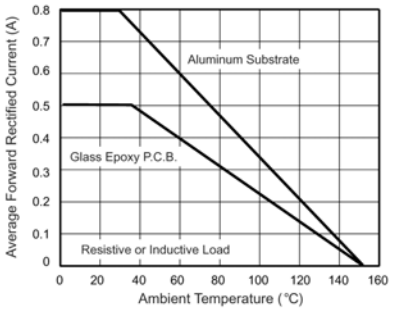


Figure 1. Maximum Forward Current Derating Curve

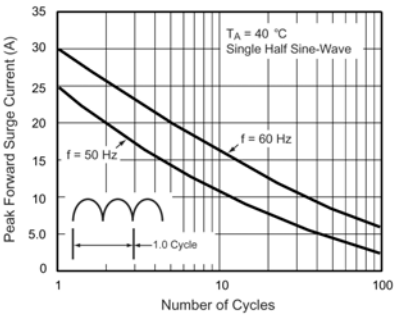


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

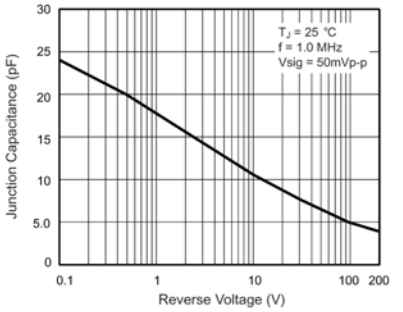


Figure 5. Typical Junction Capacitance Per Leg

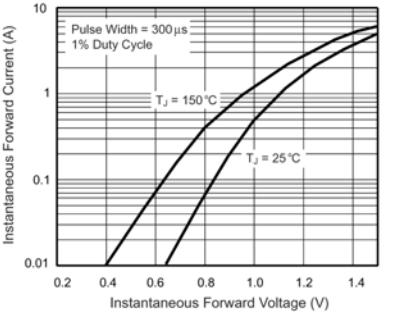


Figure 3. Typical Instantaneous Forward Characteristics Per Leg

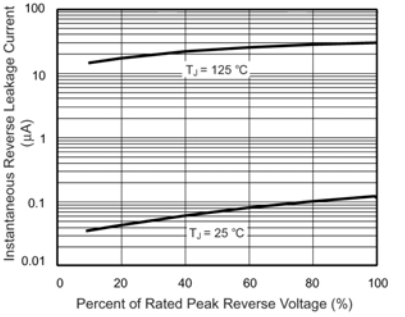


Figure 4. Typical Reverse Leakage Characteristics Per Leg