



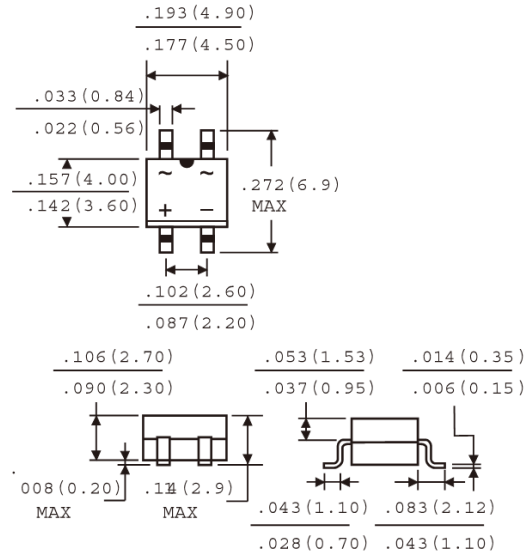
## RMB2S - RMB6S

### 0.8 AMP. Miniature Glass Passivated Fast Recovery Surface Mount Bridge Rectifiers

#### MBS

#### Features

- ✧ UL Recognized File # E-326243
- ✧ Ideal for printed circuit board
- ✧ Reliable low cost construction utilizing molded plastic technique
- ✧ High surge current capability
- ✧ High temperature soldering guaranteed:  
260°C/10 seconds at 5 lbs.,(2.3kg) tension
- ✧ Small size, simple installation
- ✧ Green compound with suffix "G" on packing code & prefix "G" on datecode



#### Mechanical Data

- ✧ Case: Molded plastic body
- ✧ Terminals: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208
- ✧ Weight: 0.123 grams

#### Dimensions in inches and (millimeters)

#### Marking Diagram



- RMBX = Specific Device Code
- G = Green Compound
- Y = Year
- WW = Work Week

#### Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

| Type Number   | Symbol          | RMB2S | RMB4S         | RMB6S | Unit               |
|---|-----------------|-------|---------------|-------|--------------------|
| Maximum Repetitive Peak Reverse Voltage   | $V_{RRM}$       | 200   | 400           | 600   | V                  |
| Maximum RMS Voltage   | $V_{RMS}$       | 140   | 280           | 420   | V                  |
| Maximum DC Blocking Voltage   | $V_{DC}$        | 200   | 400           | 600   | V                  |
| Maximum Average Forward Current<br>60Hz sine wave resistance load<br>On glass-epoxy P.C.B.<br>On aluminum substrate | $I_{F(AV)}$     |       | 0.5<br>0.8    |       | A                  |
| Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)                  | $I_{FSM}$       |       | 30            |       | A                  |
| Maximum Instantaneous Forward Voltage (Note 1)<br>@ 0.4A  | $V_F$           |       | 1             |       | V                  |
| Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$<br>at Rated DC Block Voltage @ $T_A=125^\circ\text{C}$          | $I_R$           |       | 5<br>100      |       | $\mu\text{A}$      |
| Maximum Reverse Recovery Time (Note 2)  | $T_{rr}$        |       | 150           |       | nS                 |
| Typical Junction Capacitance Per Leg  | $C_j$           |       | 13            |       | pF                 |
| Typical Thermal Resistance Per Leg  | $R_{\theta JA}$ |       | 85            |       | $^\circ\text{C/W}$ |
| Operating Temperature Range   | $T_J$           |       | - 55 to + 150 |       | $^\circ\text{C}$   |
| Storage Temperature Range   | $T_{STG}$       |       | - 55 to + 150 |       | $^\circ\text{C}$   |

Note 1 : Pulse Test with PW=300 usec, 1% Duty Cycle

Note 2 : Reverse Recovery Test Condition:  $I_F=0.5\text{A}$ ,  $I_R=1.0\text{A}$ ,  $I_{RR}=0.25\text{A}$

## RATINGS AND CHARACTERISTIC CURVES (RMB2S THRU RMB6S)

FIG.1 FORWARD CURRENT DERATING CURVE

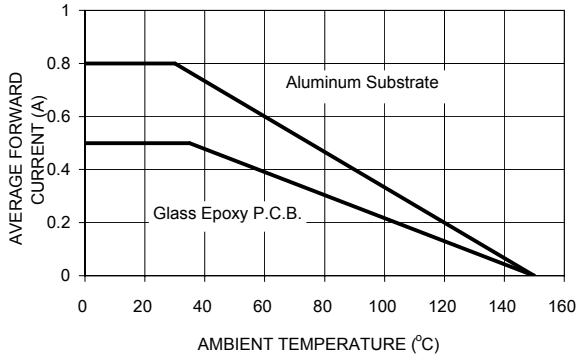


FIG. 2 TYPICAL REVERSE CHARACTERISTICS PER LEG

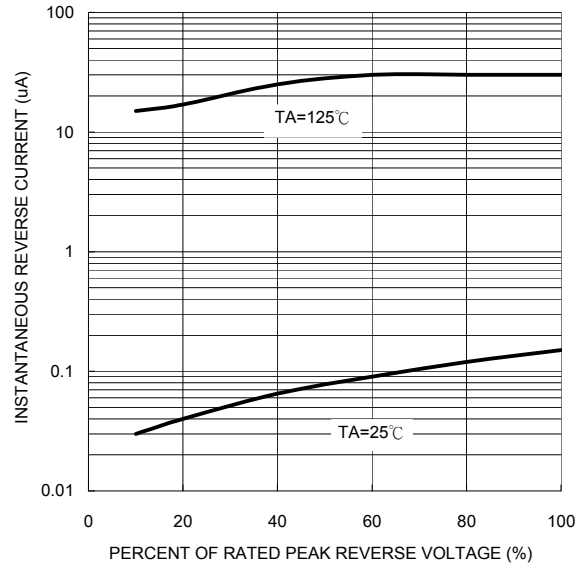


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

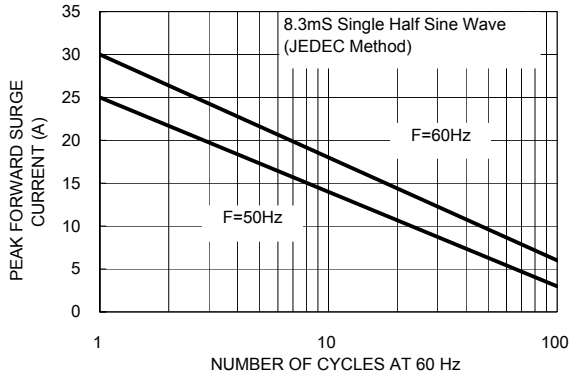


FIG. 5 TYPICAL FORWARD CHARACTERISTICS PER LEG

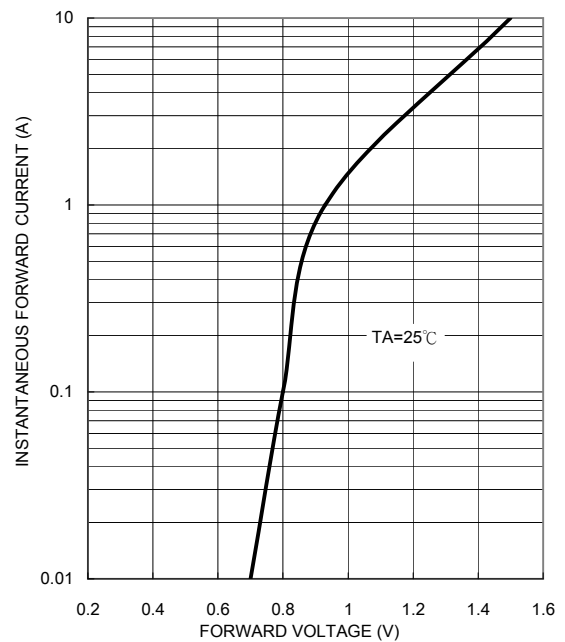


FIG. 4 TYPICAL JUNCTION CAPACITANCE PER LEG

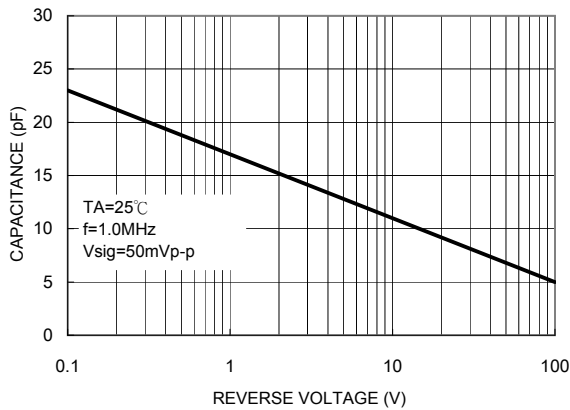


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

