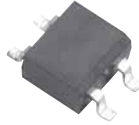


RMB2S - RMB6S

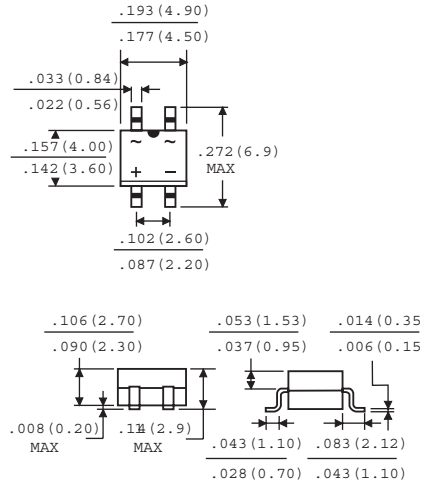
0.8Amps Miniature Glass Passivated
Fast Recovery Surface Mount Bridge Rectifiers



Features

- ✧ 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., (2.3 kg) tension
- ✧ Small size, simple installation
- ✧ Pure tin plated terminal, Lead free.
Leads solderable per MIL-STD-202 Method 208

MBS



Dimensions in inches and (millimeters)

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 | Units |
|---|-----------------|-------|-------------|-------|--------------------------------|
| Maximum Recurrent 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 Rectified Current On glass-epoxy P.C.B. On aluminum substrate | $I_{(AV)}$ | | 0.5 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 @ 0.4A | V_F | | 1.0 | | V |
| Maximum DC Reverse Current @ $T_A=25\text{ }^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=125\text{ }^\circ\text{C}$ | I_R | | 5.0 100 | | μA μA |
| Maximum Reverse Recovery Time at (Note 1) | T_{rr} | | 150 | | nS |
| Typical Junction Capacitance Per Leg | C_j | | 13 | | pF |
| Typical Thermal Resistance Per Leg | $R_{\theta JA}$ | | 85 | | $^\circ\text{C}/\text{W}$ |
| Operating Temperature Range | T_J | | -55 to +150 | | $^\circ\text{C}$ |
| Storage Temperature Range | T_{STG} | | -55 to +150 | | $^\circ\text{C}$ |

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

RATINGS AND CHARACTERISTIC CURVES (RMB2S THRU RMB6S)

FIG.1- DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

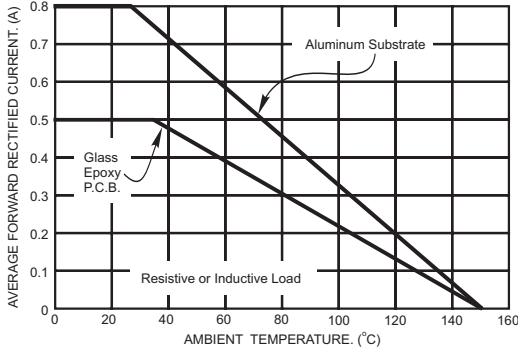


FIG.2- TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG

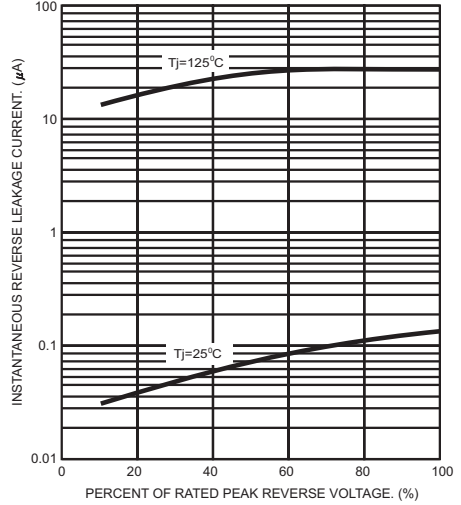


FIG.3- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

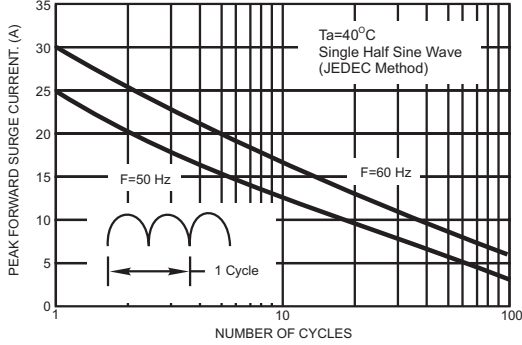


FIG.5- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

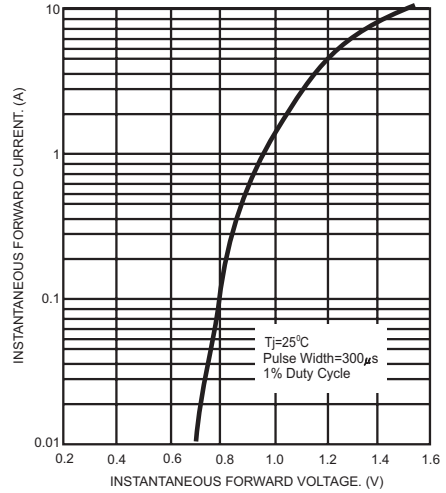


FIG.4- TYPICAL JUNCTION CAPACITANCE PER LEG

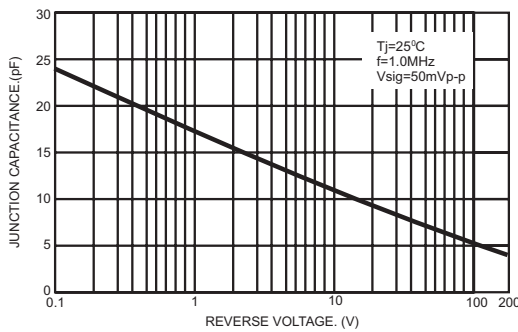


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

