



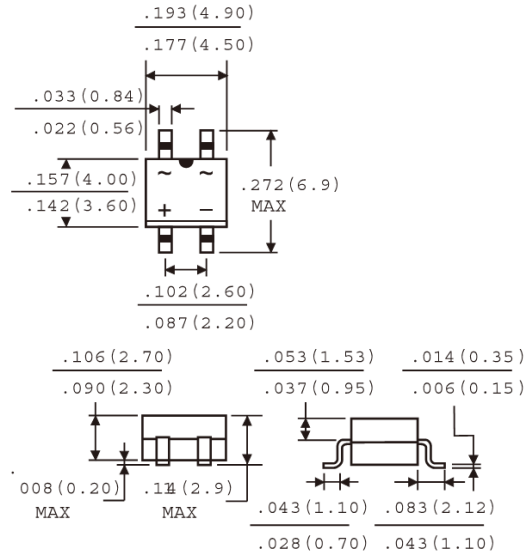
RMB2S - RMB6S

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 60Hz sine wave resistance load On glass-epoxy P.C.B. On aluminum substrate	$I_{F(AV)}$		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 (Note 1) @ 0.4A	V_F		1		V
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Block Voltage @ $T_A=125^\circ\text{C}$	I_R		5 100		μA
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: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$

Version:D10

RATINGS AND CHARACTERISTIC CURVES (RMB2S THRU RMB6S)

FIG.1 FORWARD CURRENT DERATING CURVE

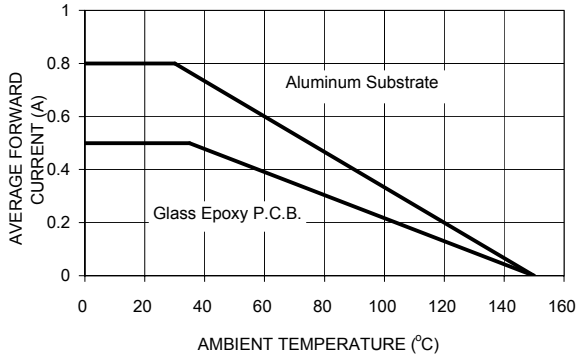


FIG. 2 TYPICAL REVERSE CHARACTERISTICS PER LEG

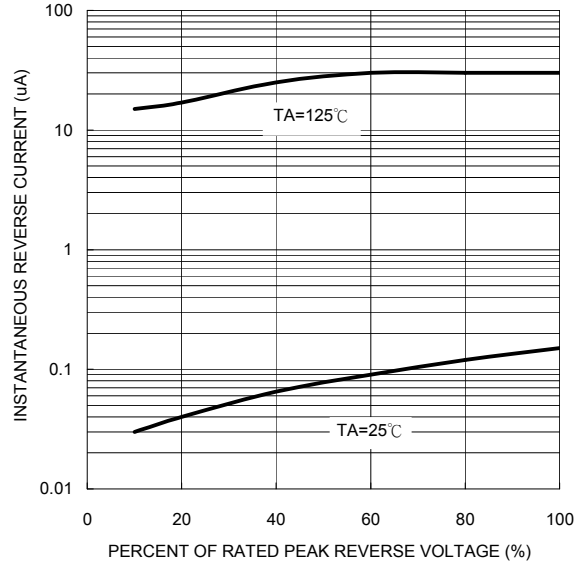


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

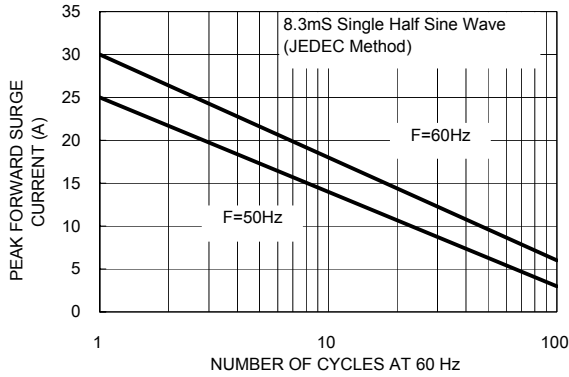


FIG. 5 TYPICAL FORWARD CHARACTERISTICS PER LEG

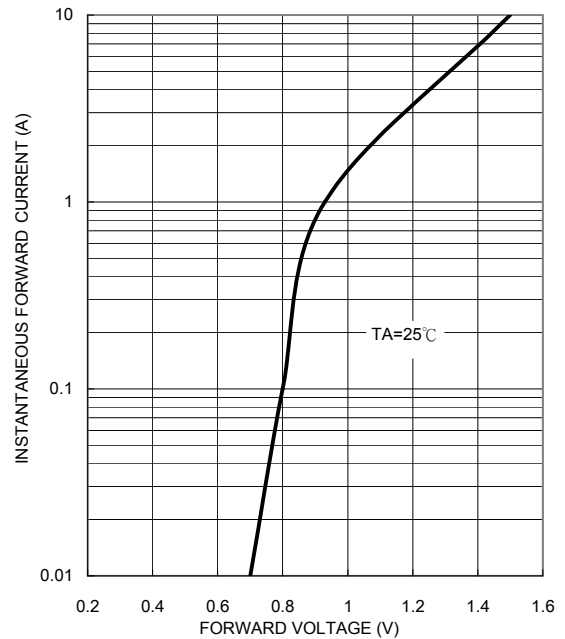


FIG. 4 TYPICAL JUNCTION CAPACITANCE PER LEG

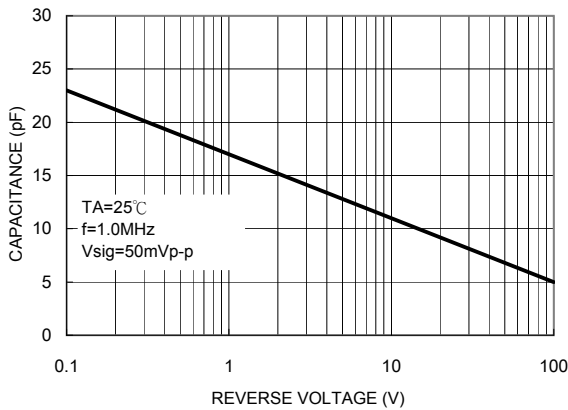
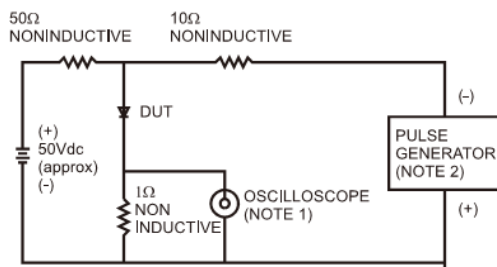


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



NOTES: 1. Rise Time=7ns max. Input Impedance=1 megohm 22pf
2. Rise Time=10ns max. Source Impedance=50 ohms

