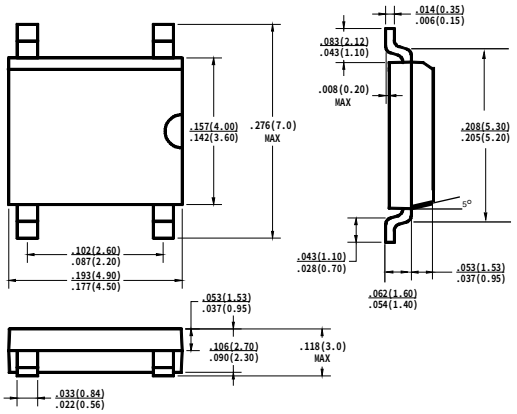
RMC2S Thru RMC10S

0.8Amps Miniature Glass Passivated
Fast Recovery Surface Mount Bridge Rectifiers

Features:

- Ideal for printed circuit board
- Reliable low cost construction utilizing moulded plastic technique
- High surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds at 5lbs., (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, 60Hz, resistive or inductive load
For capacitive load, derate current by 20%

Type Number	Symbol	RMC2S	RMC4S	RMC6S	RMC8S	RMC10S	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	140	280	420	560	700	
Maximum DC Blocking Voltage	V_{DC}	200	400	600	800	1000	
Maximum Average Forward Rectified Current On glass-epoxy PCB On aluminum substrate	$I_{(AV)}$	0.5 0.8					A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	30					
Maximum Instantaneous Forward Voltage at 0.4A	V_F	1.0	1.4	1.7			V
Maximum DC Reverse Current at TA = 25°C at Rated DC Blocking Voltage at TA = 125°C	I	5 100					μA
Maximum Reverse Recovery Time at (Note)	T_{rr}	50		75			nS
Typical Junction Capacitance Per Leg	C_j	13					pF
Typical Thermal Resistance Per Leg	$R_{\theta ja}$	85					°C/W
Operating Temperature Range	T_j	-55 to +150					°C
Storage Temperature Range	T_{STG}						

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

FIG.1- DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

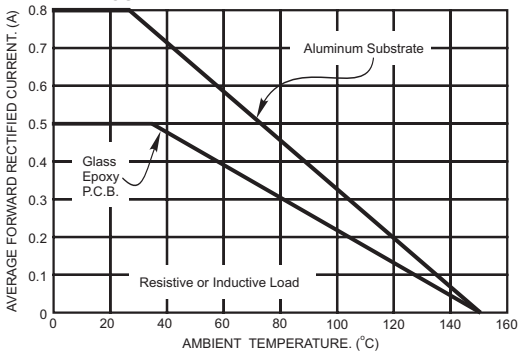


FIG.2- TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG

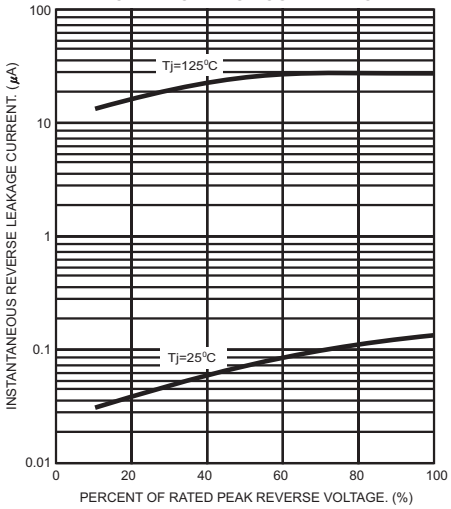


FIG.3- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

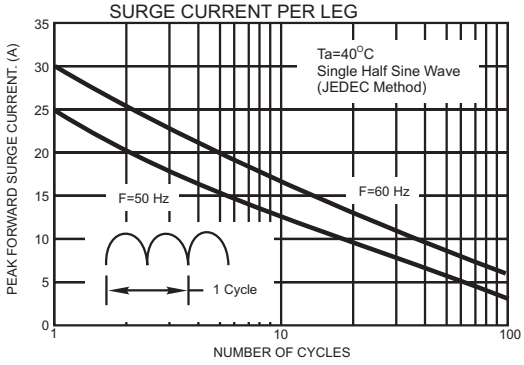


FIG.5- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

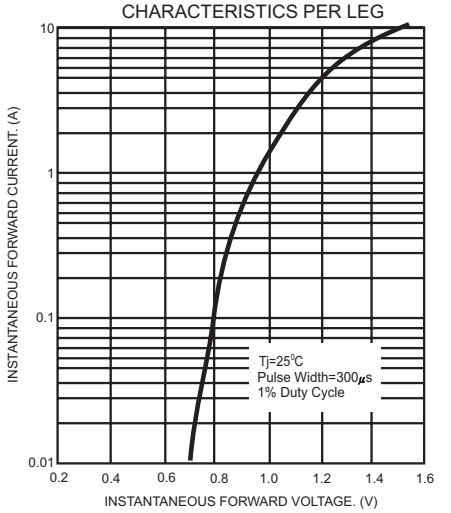


FIG.4- TYPICAL JUNCTION CAPACITANCE PER LEG

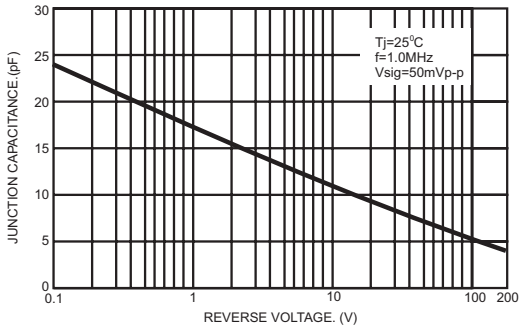
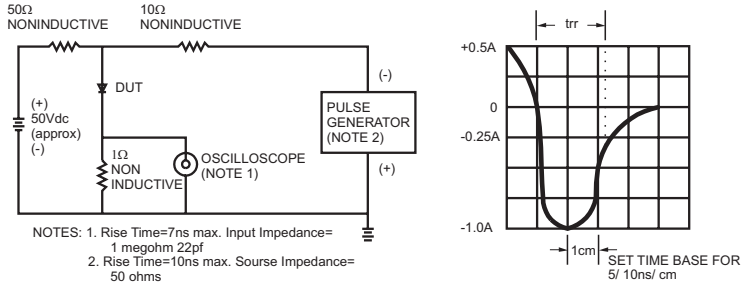


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



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