

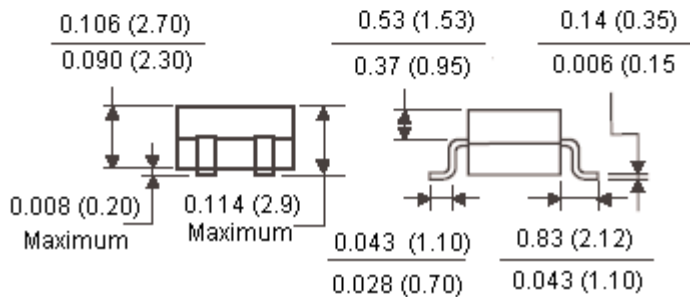
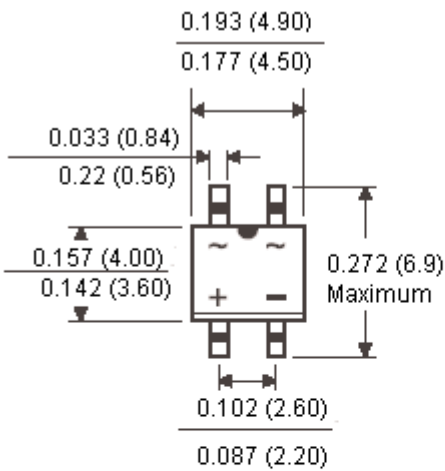


### Features:

- 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 : Inches (Millimetres)

## Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

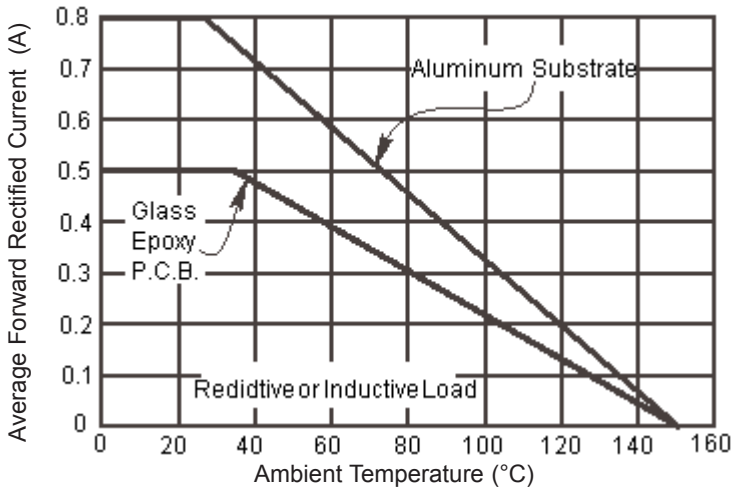
For capacitive load, derate current by 20%.

Type Number	Symbol	RMB2S	RMB4S	RMB6S	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	200	400	600	V
Maximum RMS Voltage	$V_{RMS}$	140	280	420	
Maximum DC Blocking Voltage	$V_{DC}$	200	400	600	
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			V
Maximum DC Reverse Current at $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage at $T_A = 125^\circ\text{C}$	$I_R$	5.0 100			$\mu\text{A}$ $\mu\text{A}$
Maximum Reverse Recovery Time at (Note)	$T_{rr}$	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	$T_{STG}$				

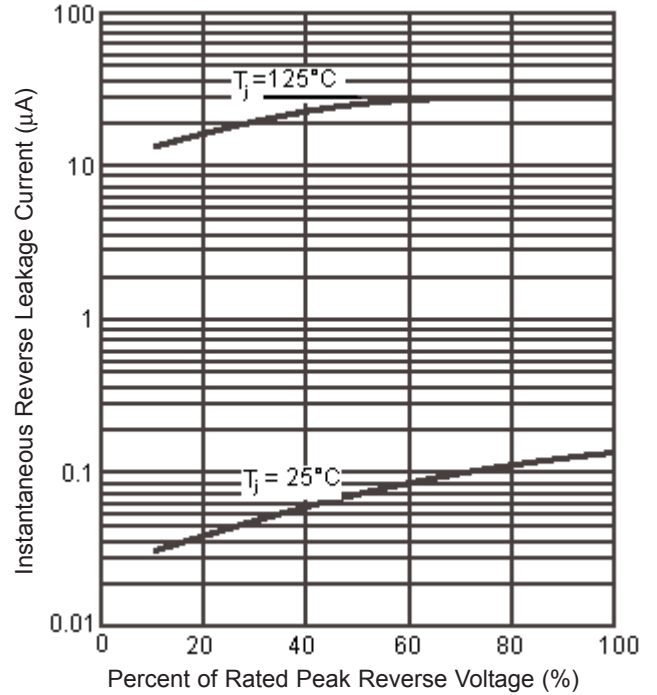
Note: Reverse Recovery Test Conditions:  $I_F = 0.5\text{A}$ ,  $I_R = 1.0\text{A}$ ,  $I_{RR} = 0.25\text{A}$ .

## Ratings and Characteristic Curves (GBL01, GBL02, GBL04, GBL06, GBL08 and GBL10)

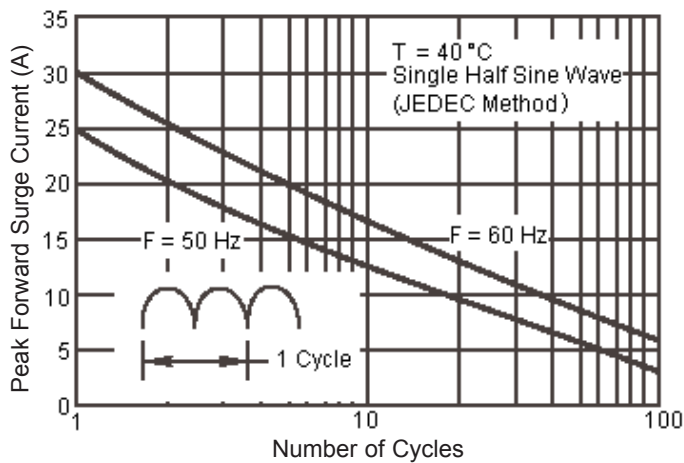
**Derating Curve for Output Rectified Current**



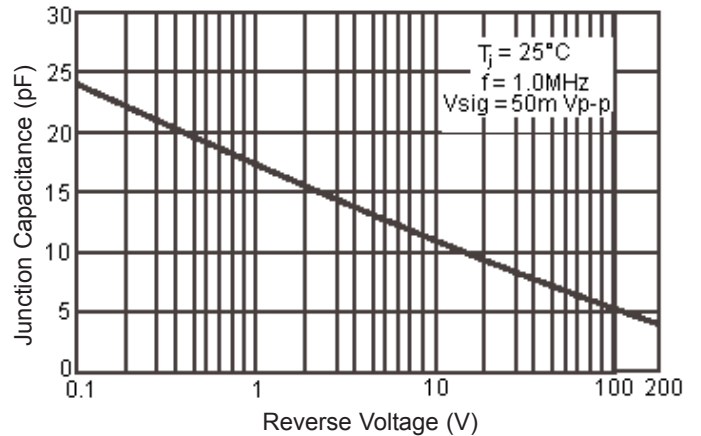
**Typical Reverse Leakage Characteristics Per Leg**



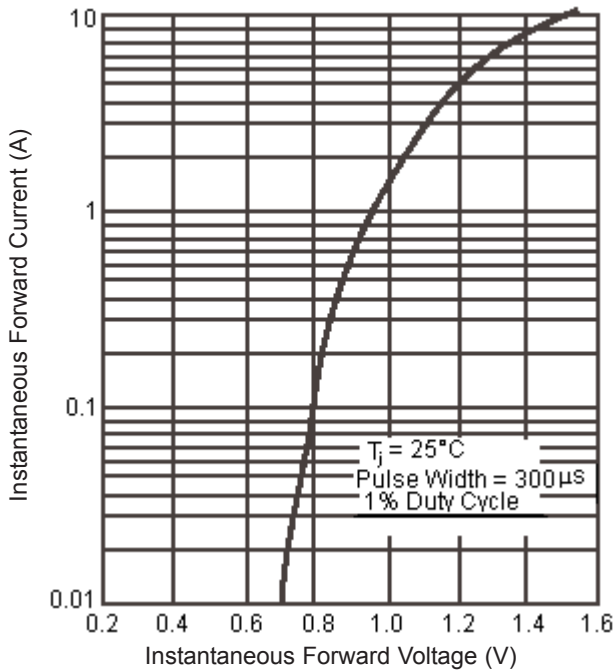
**Maximum Non-Repetitive Peak Forward Surge Current Per Leg**



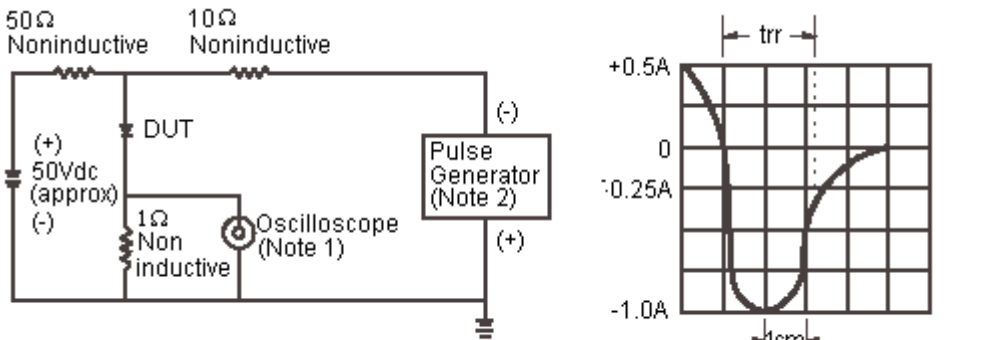
**Typical Junction Capacitance Per Leg**



Typical Instantaneous Forward Characteristics Per Leg



Reverse Recovery Time Characteristic and Test Circuit Diagram



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

## Part Number Table

Description	Part Number
Bridge Rectifier, 0.5A, 200V	RMB2S
Bridge Rectifier, 0.5A, 400V	RMB4S
Bridge Rectifier, 0.5A, 600V	RMB6S

## Notes:

## International Sales Offices:

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