

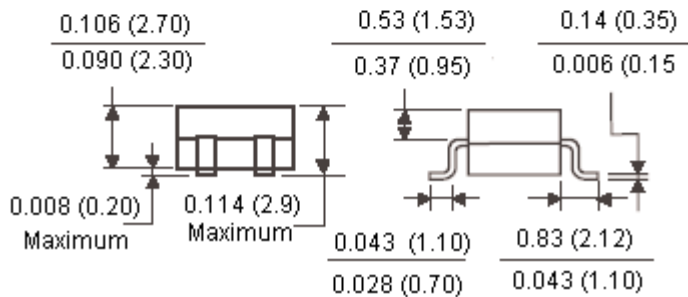
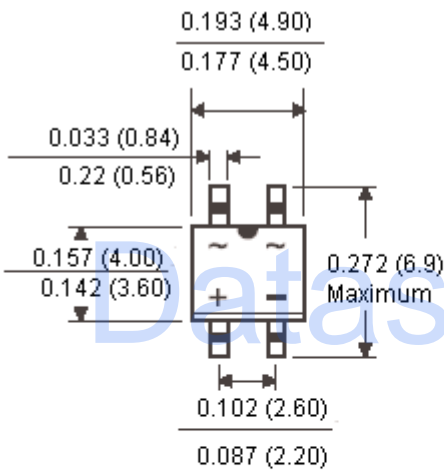


Features:

- 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.

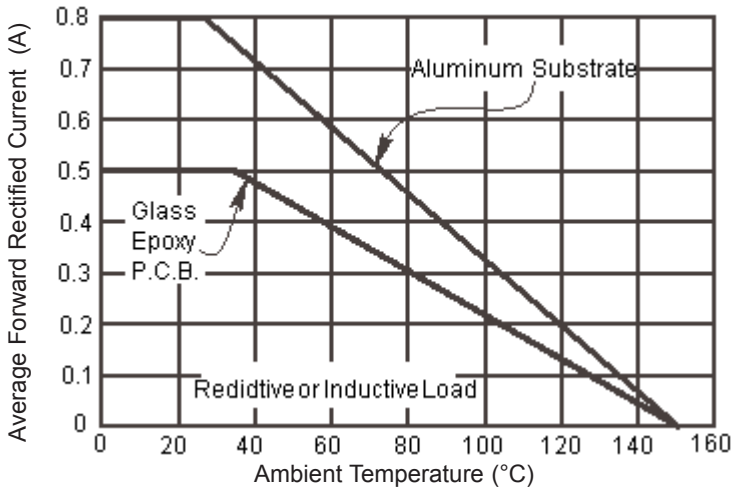
For capacitive load, derate current by 20%.

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			μA μA
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}				

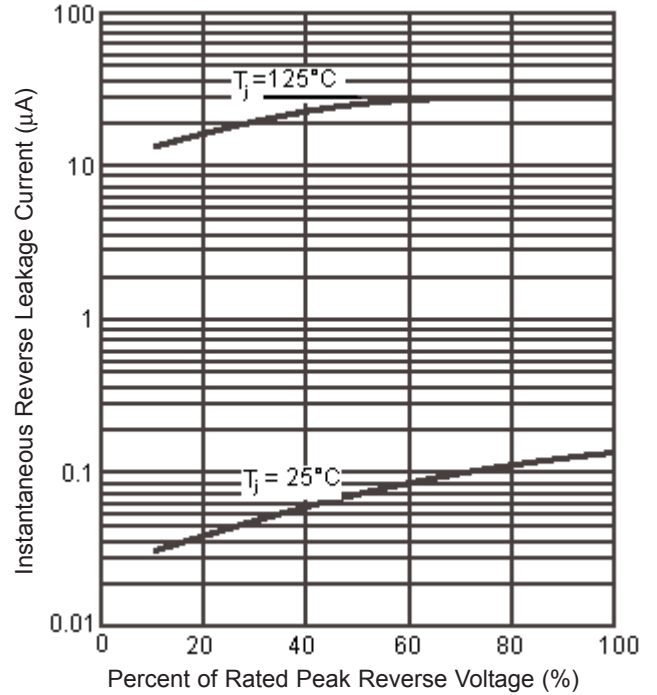
Note: Reverse Recovery Test Conditions: $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$.

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

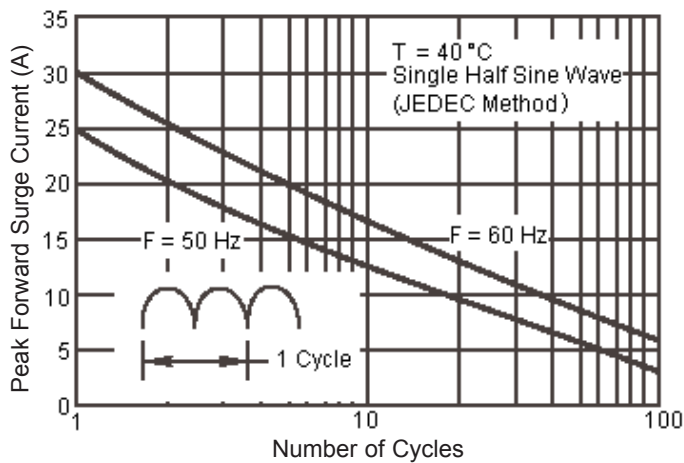
Derating Curve for Output Rectified Current



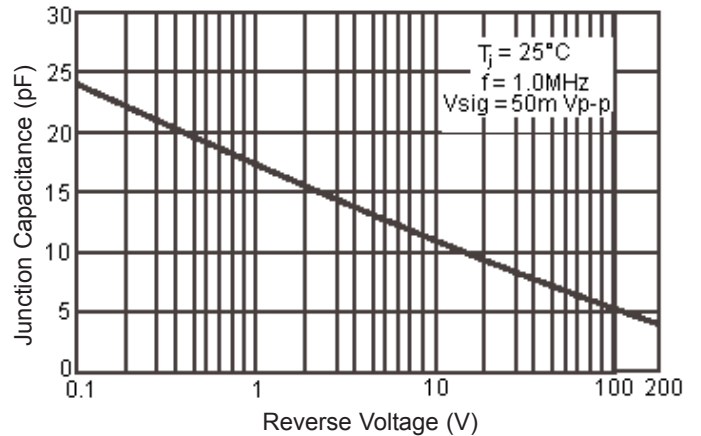
Typical Reverse Leakage Characteristics Per Leg



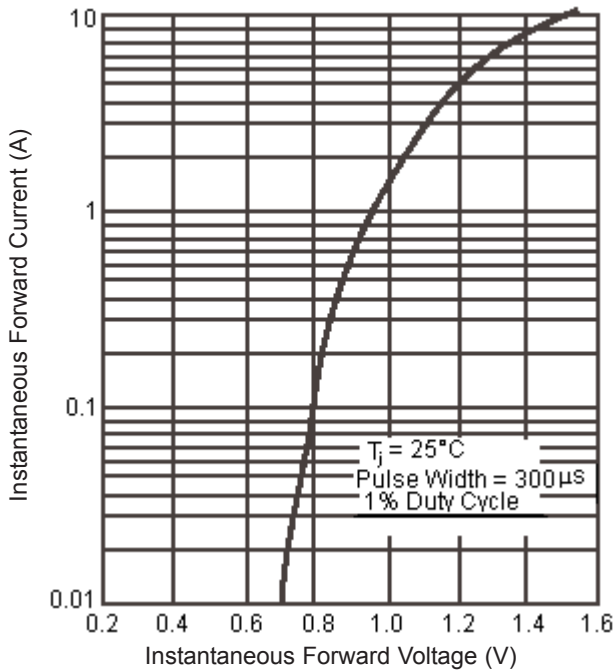
Maximum Non-Repetitive Peak Forward Surge Current Per Leg



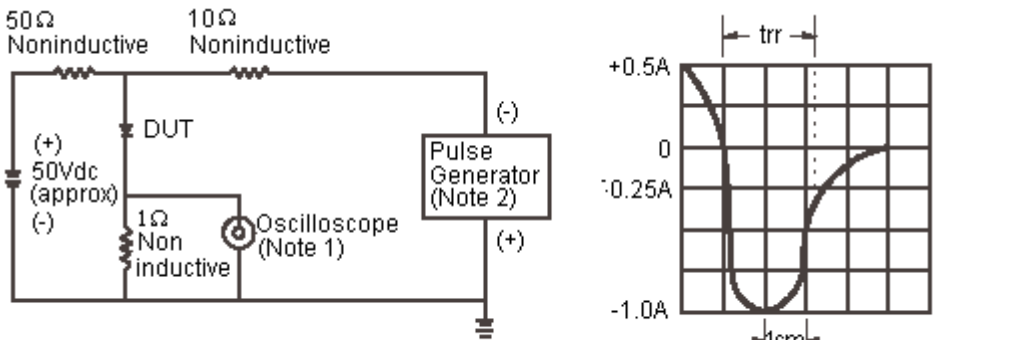
Typical Junction Capacitance Per Leg



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:

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