Bridge Rectifier

RoHS Compliant

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.

Maximum Ratings and Electrical Characteristics

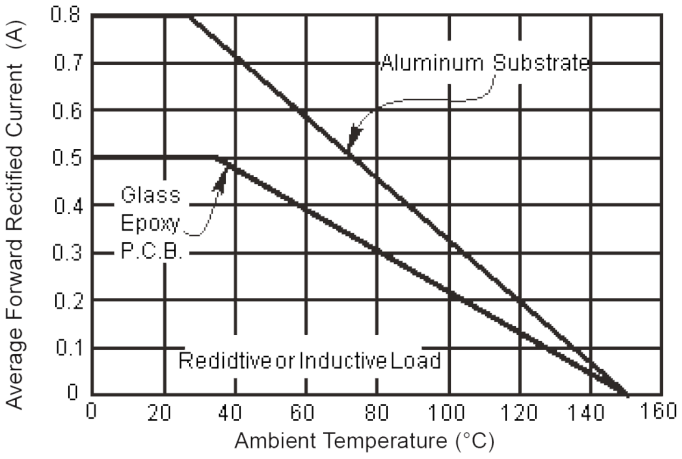
Rating at 25°C ambient temperature unless otherwise specified
Single phase, half wave, 60Hz, resistive or inductive load
For capacitive load, derate current by 20%

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			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}	150			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}				

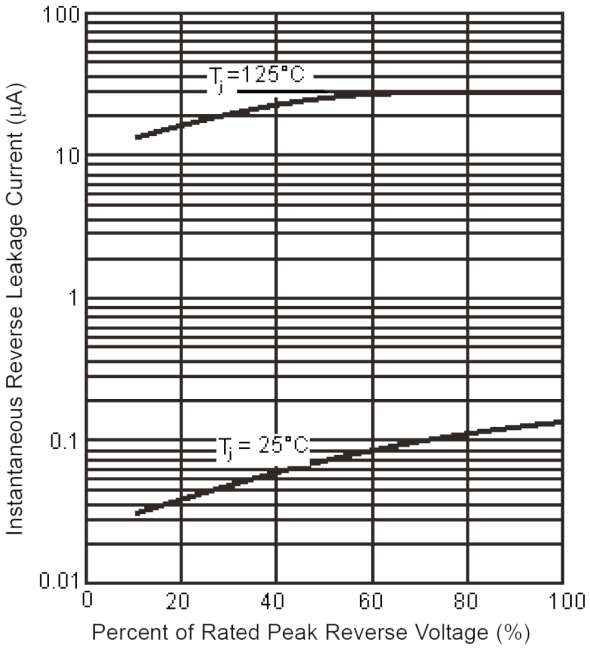
Note: Reverse Recovery Test Conditions: I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A.

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

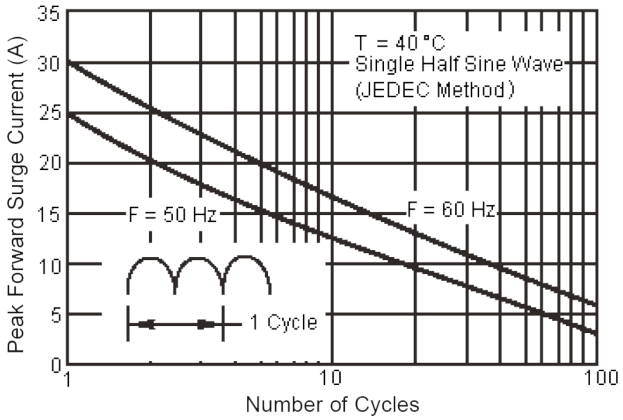
Derating Curve for Output Rectified Current



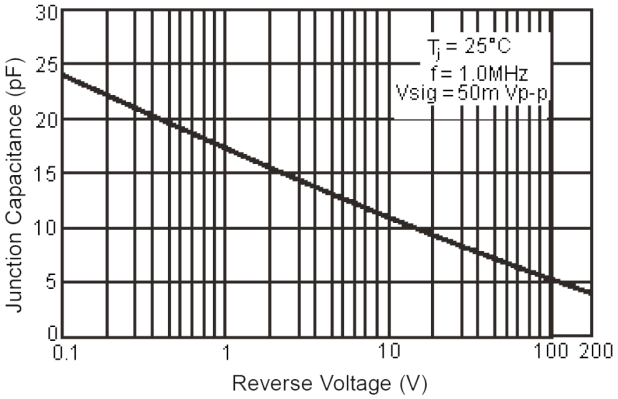
Typical Reverse Leakage Characteristics Per Leg



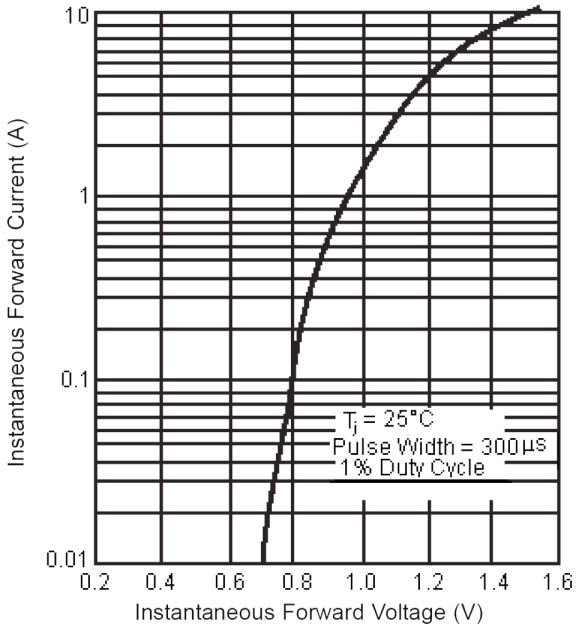
Maximum Non-Repetitive Peak Forward Surge Current Per Leg



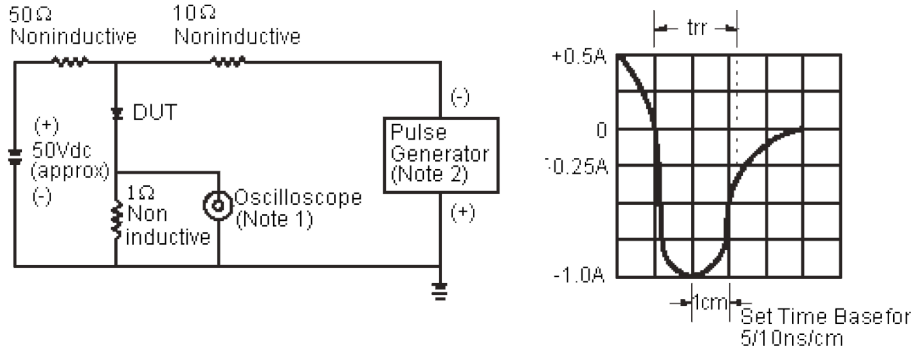
Typical Junction Capacitance Per Leg



Typical Instantaneous Forward Characteristics Per Leg



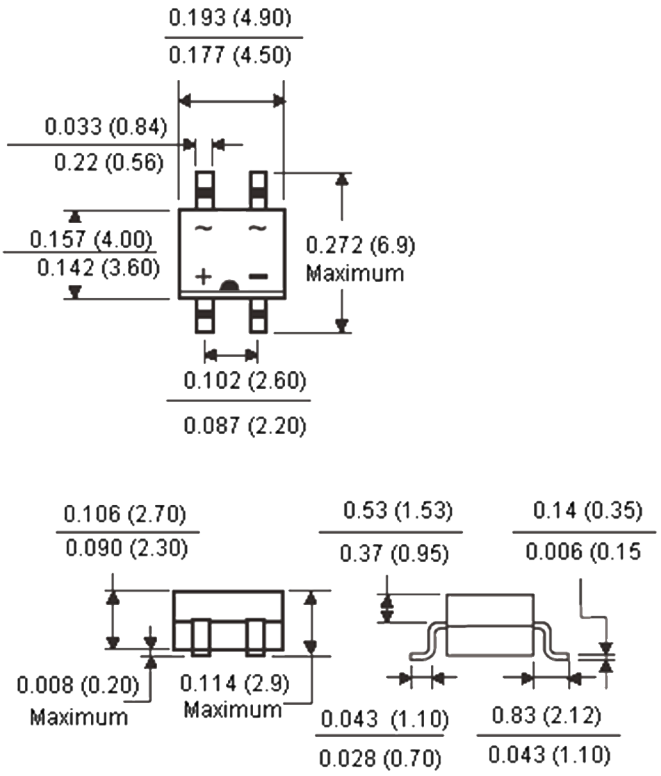
Reverse Recovery Time Characteristic and Test Circuit Diagram



Notes: 1. Rise Time = 7ns maximum Input Impedance = 1MΩ 22pf
2. Rise Time = 10ns maximum Sourse Impedance = 50Ω

Bridge Rectifier

MBS



Dimensions : Inches (Millimetres)

Part Number Table

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