

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 $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage at $T_A = 125^\circ\text{C}$	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			$^\circ\text{C/W}$
Operating Temperature Range	T_j	-55 to +150			$^\circ\text{C}$
Storage Temperature Range	T_{STG}				

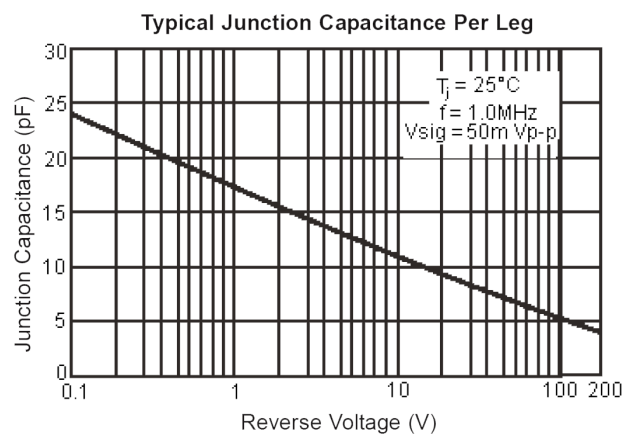
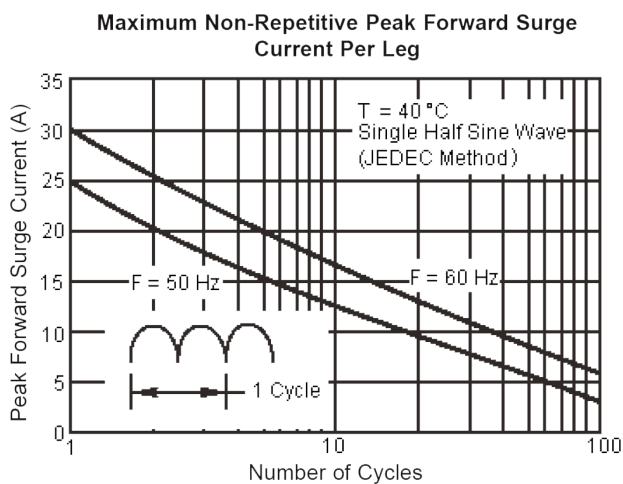
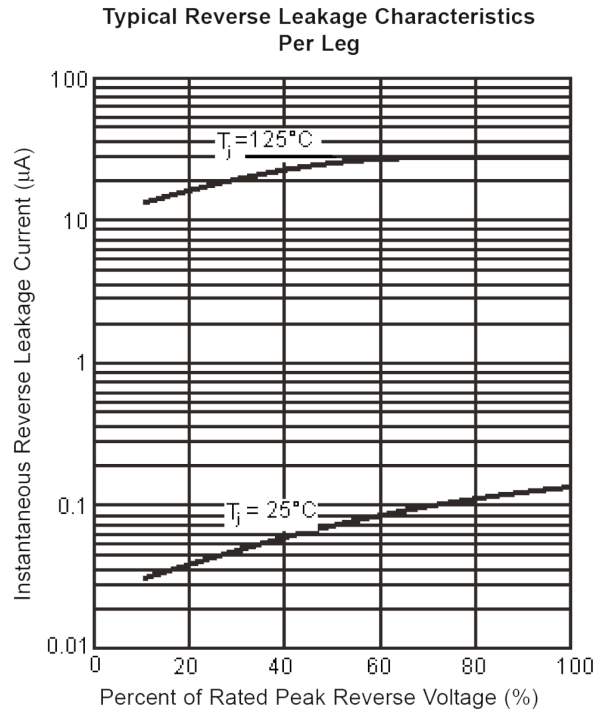
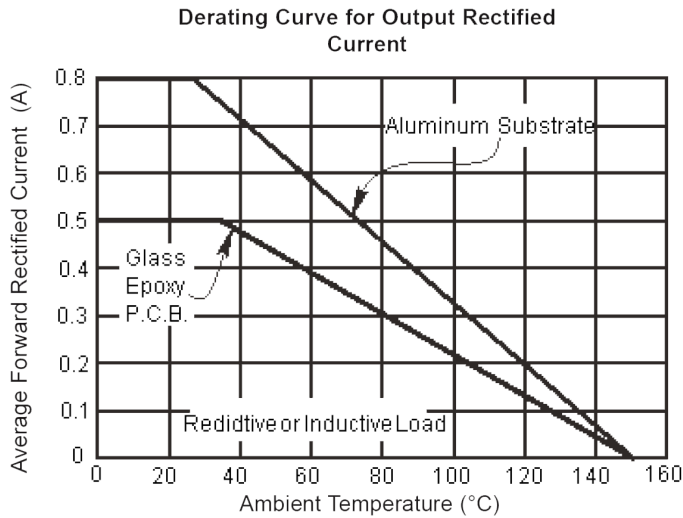
Note: Reverse Recovery Test Conditions: $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$.



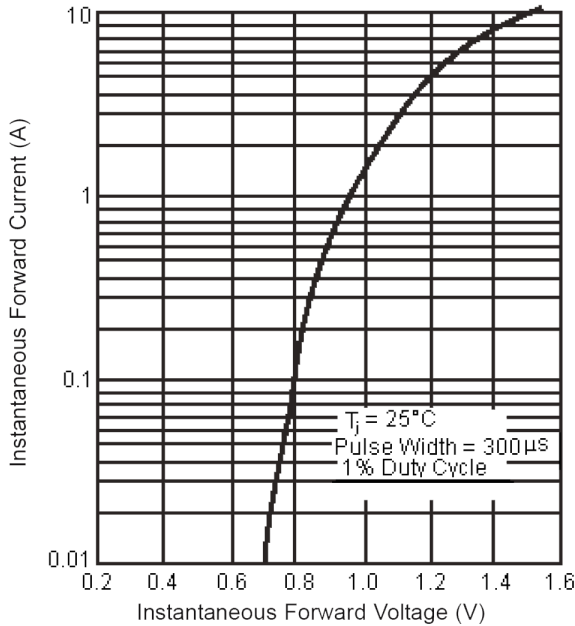
Bridge Rectifier



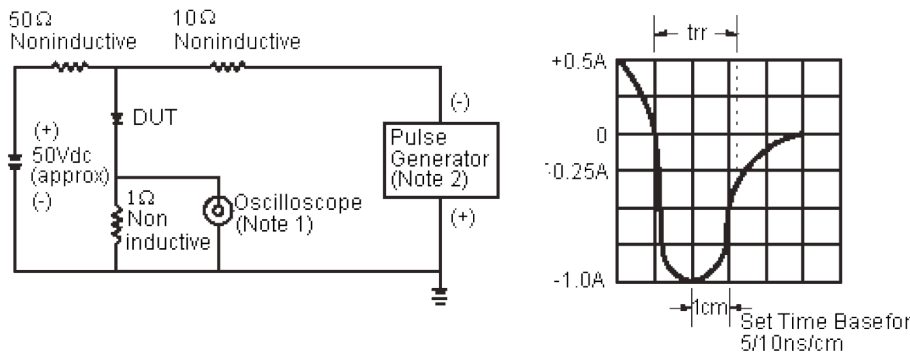
Ratings and Characteristic Curves (GBL01, GBL02, GBL04, GBL06, GBL08 and GBL10)



Typical Instantaneous Forward Characteristics Per Leg

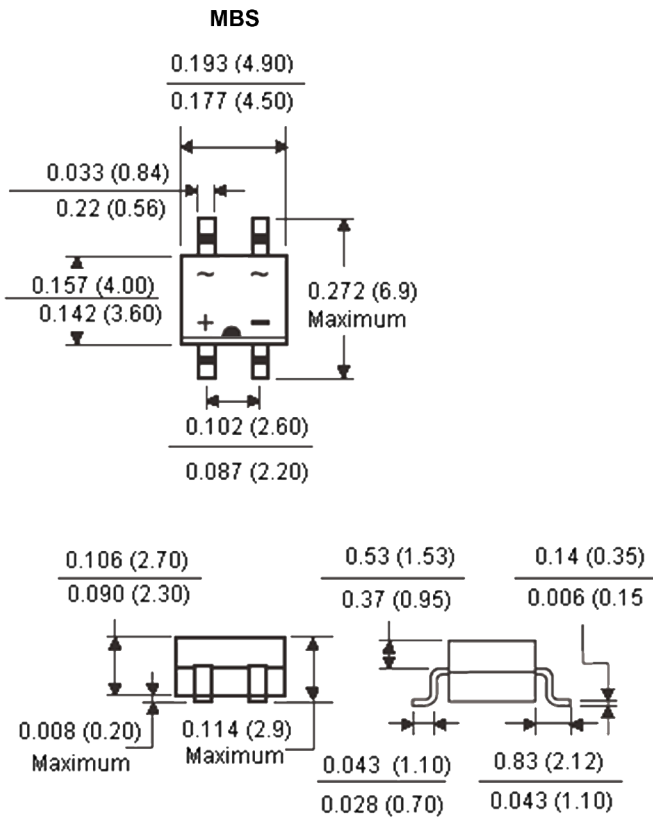


Reverse Recovery Time Characteristic and Test Circuit Diagram



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

Bridge Rectifier



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

Important Notice : This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2012.

www.element14.com
 www.farnell.com
 www.newark.com

