Bridge Rectifier Diode

multicomp PRO

Features

RoHS Compliant

- Glass passivated
- High surge forward current capability
- Reliable low cost construction utilizing moulded plastic technique results in expensive product
- Lead tin plated copper
- Mounting position: Any
- Lead free

Applications

General purpose use in AC/DC bridge full wave rectification, for SMPS, lighting ballast, adapter, etc.

Max. 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%.

Characteristics	Symbol	Values	Unit
Max. Recurrent Peak Reverse Voltage	V_{RRM}	1,000	V
Max. RMS Bridge Input Voltage	V_{RMS}	700	
Max. DC Blocking Voltage	V_{DC}	1,000	
Max. Average Forward Rectified Current at T_A = 25°C	$I_{(AV)}$	2	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	60	
I^2t Rating for Fusing (t < 8.3 ms)	I^2t	15	A^2s
Peak Forward Voltage per Diode at 2A DC	V_F	1.1	V
Maximum DC Reverse Current at Rated DC Blocking Voltage per Diode T_J = 25°C T_J = 100°C	I_R	10 1	µA mA
Typical Junction Capacitance (Note 1)	C_J	30	pF
Operating Junction Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}		

Note :
1. Measured at 1MHz and applied reverse Voltage of 4V DC

Rating and Characteristics Curves

Fig. 1 - Forward Current Derating Curve

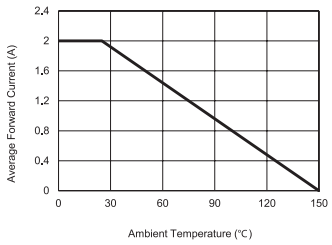

Fig. 2 - Maximum Non-Repetitive Surge Current

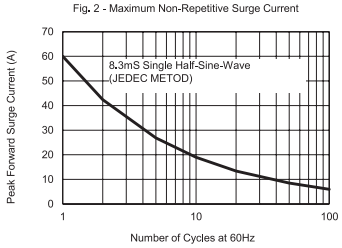

Fig. 3 - Typical Reverse Characteristics

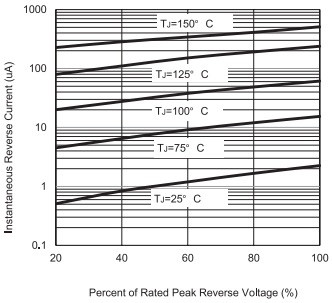

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Fig. 4 - Typical Forward Characteristics

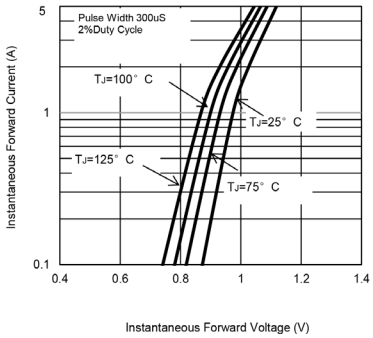
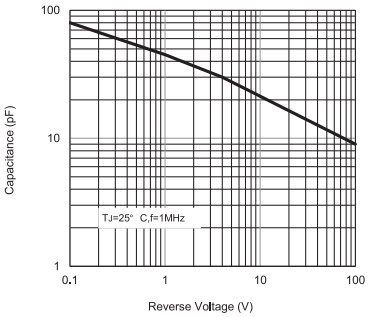
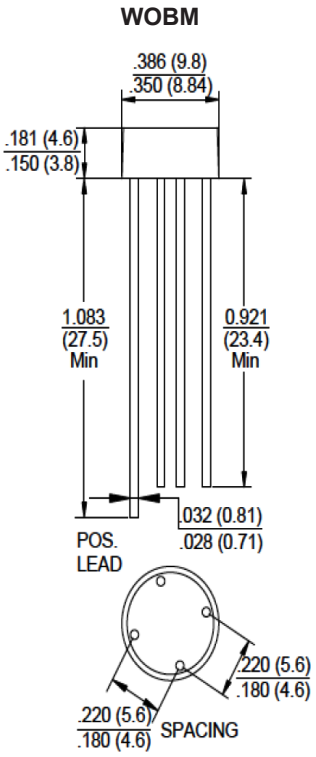


Fig. 5 - Typical Junction Capacitance



Diagram



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Bridge Rectifier Diode, Single Phase, 1kV, 2A	2W10MG