2WOXG/2WOXMG SERIES

Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts

Forward Current - 2.0 Amperes

Features

- Glass passivated chip
- High surge forward current capability
- Reliable low cost construction utilizing molded plastic technique
- Lead tin plated copper

Mechanical Data

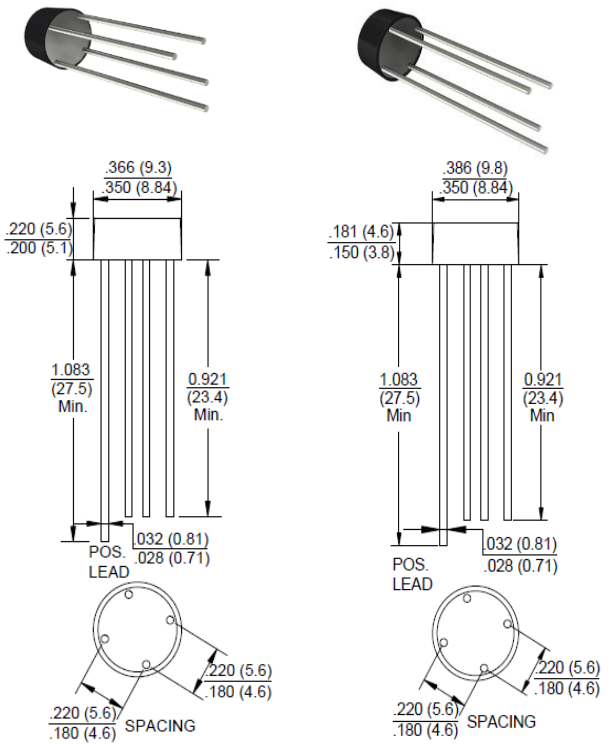
- Polarity: Symbol marked on body
- Mounting position: Any

Applications

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

RoHS COMPLIANT

WOB **WOBM**



Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

Characteristics	Symbol	2W005G 2W005MG	2W01G 2W01MG	2W02G 2W02MG	2W04G 2W04MG	2W06G 2W06MG	2W08G 2W08MG	2W10G 2W10MG	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T_A=25 ℃	$I_{(AV)}$	2.0							A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I_{FSM}	60							A
I^2t Rating for Fusing (t<8.3mS)	I^2t	15.0							A^2s
Peak Forward Voltage per Diode at 2.0A DC	V_F	1.1							V
Maximum DC Reverse Current at Rated @T_J=25℃	I_R	10.0							μA
DC Blocking Voltage per Diode @T_J=100℃		1.0							mA
Typical Junction Capacitance (Note1)	C_J	30							pF
Operating Junction Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

2.The typical data above is for reference only .

Fig. 1 - Forward Current Derating Curve

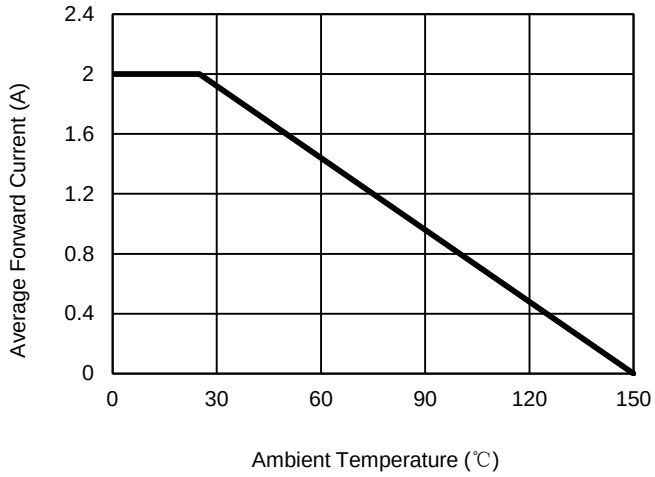


Fig. 2 - Maximum Non-Repetitive Surge Current

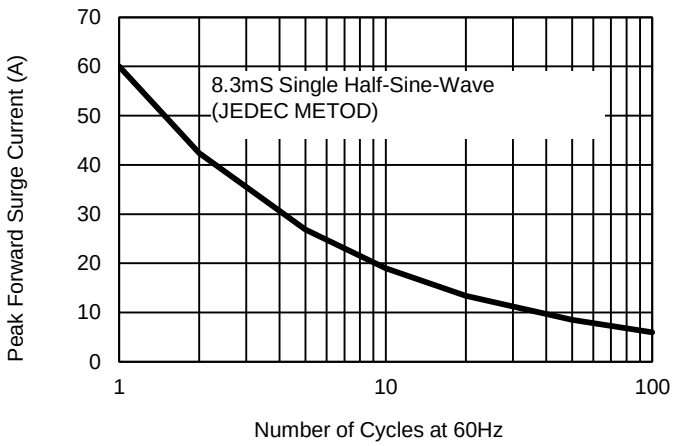


Fig. 3 - Typical Reverse Characteristics

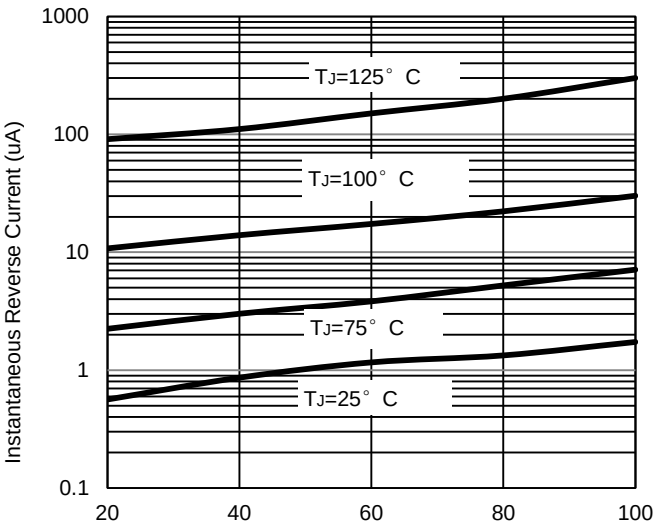


Fig. 4 - Typical Forward Characteristics

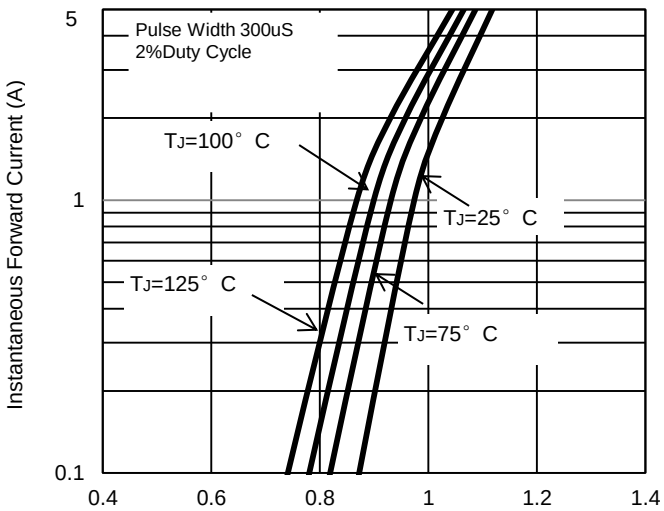
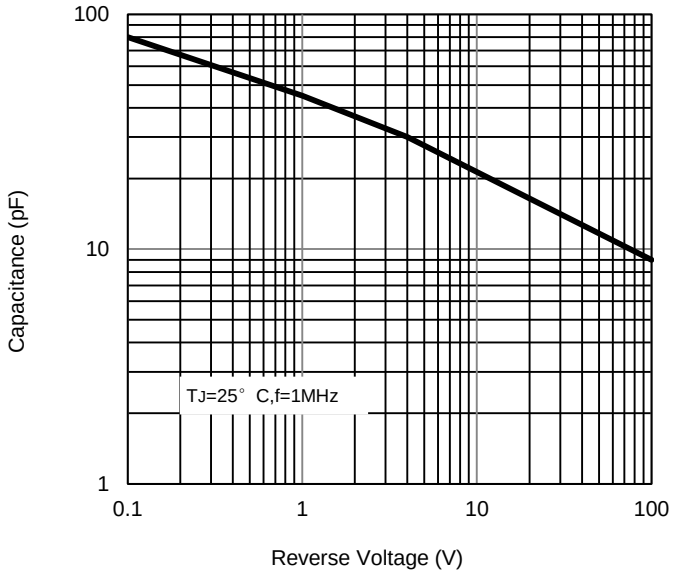


Fig. 5 - Typical Junction Capacitance



The curve above is for reference only.

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