Glass Passivated Bridge Rectifier

Lumimax Optoelectronic Tech.

W005M THRU W10M

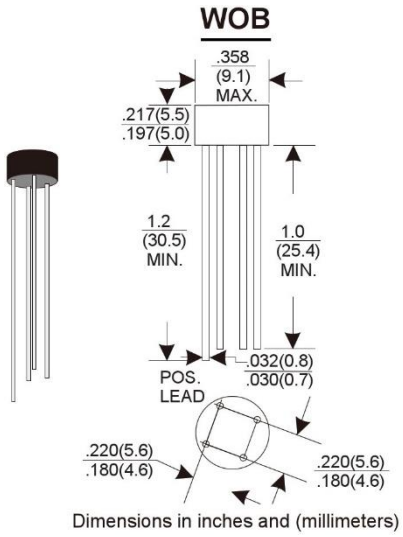
Voltage Range 50 to 1000 V
Current 1.0 Ampere

FEATURES

- Glass passivated chip
- High surge forward current capability
- Reliable low cost construction utilizing molded plastic technique
- Lead tin plated copper
- Meet UL flammability classification 94V-0

MECHANICAL DATA

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



Dimensions in inches and (millimeters)

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%.

Parameter	Symbol	W 005M	W 01M	W 02M	W 04M	W 06M	W 08M	W 10M	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 output current @T_A=25°C	$I_{F(AV)}$	1.0							A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	45							A
Rating for fusing (t < 8.3 ms)	I^2t	8.4							A^2s
Maximum instantaneous forward drop per diode @ I_F=1.0A	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	10 500							μA
Operating junction and storage temperature range	T_J,T_{STG}	-55 to +150							°C

RATINGS AND CHARACTERISTICS CURVES

Fig.1 - Forward Current Derating Curve

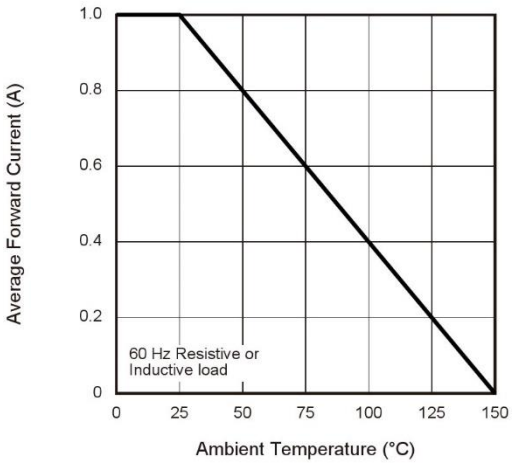


Fig.2 - Maximum Non-Repetitive Peak Forward Surge Current

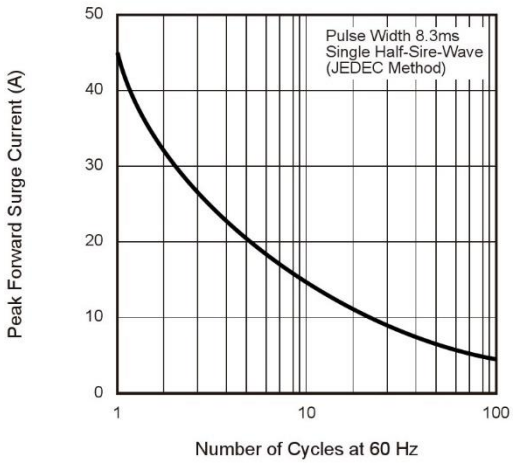


Fig.3 - Typical Instantaneous Forward Characteristics

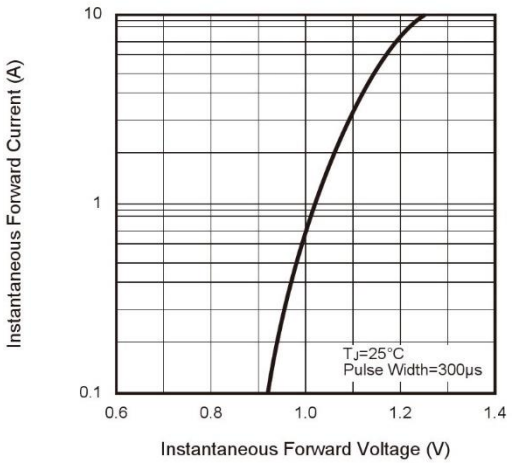
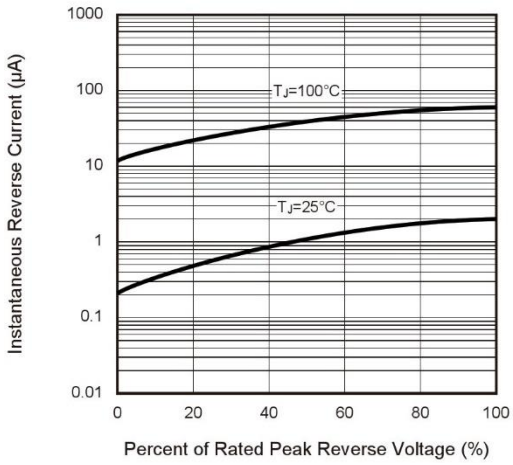


Fig.4 - Typical Reverse Leakage Characteristics



ORDER INFORMATION

Part Number	Marking Code	Package	Quantity	Delivery Mode
WxxM	1WxxG	WOB	1,000	Box

Note : "xx" defines voltage from 50V(W005M) to 1000V(W10M)