

2W005 THRU 2W10

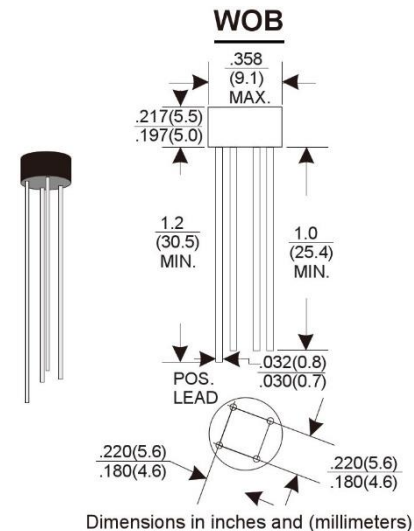
Voltage Range 50 to 1000 V
Current 2.0 Ampere

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



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	2W 005	2W 01	2W 02	2W 04	2W 06	2W 08	2W 10	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 @ $T_A=25^\circ\text{C}$	$I_{F(AV)}$	2.0							A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	60							A
Rating for fusing ($t < 8.3$ ms)	I^2t	15							A^2s
Maximum instantaneous forward drop per diode @ $I_F=2.0A$	V_F	1.1							V
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	10 500							μA
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150							$^\circ\text{C}$

RATINGS AND CHARACTERISTICS CURVES

Fig.1 - Forward Current Derating Curve

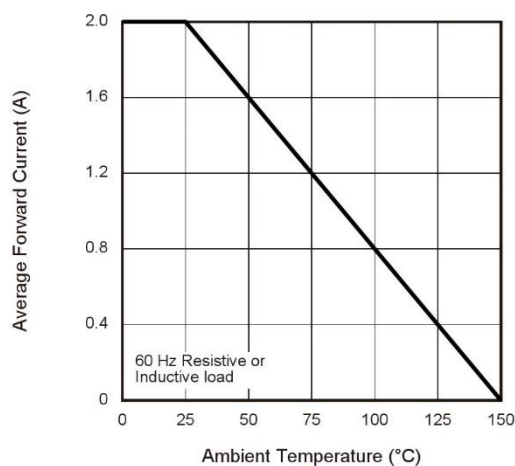


Fig.2 - Maximum Non-Repetitive Peak Forward Surge Current

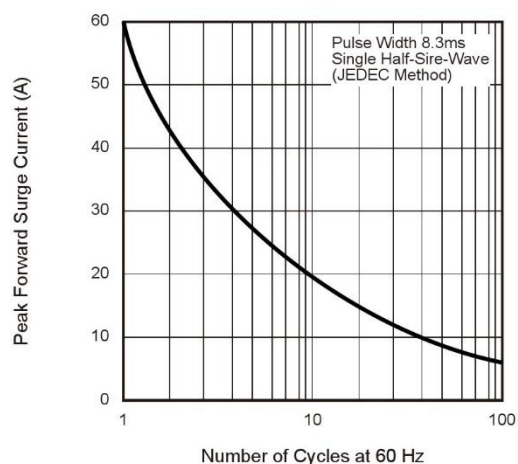


Fig.3 - Typical Instantaneous Forward Characteristics

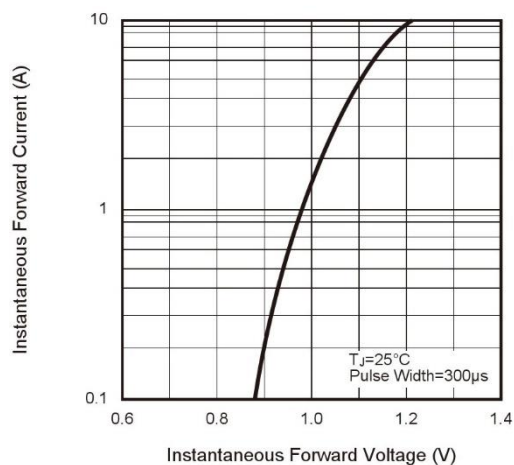
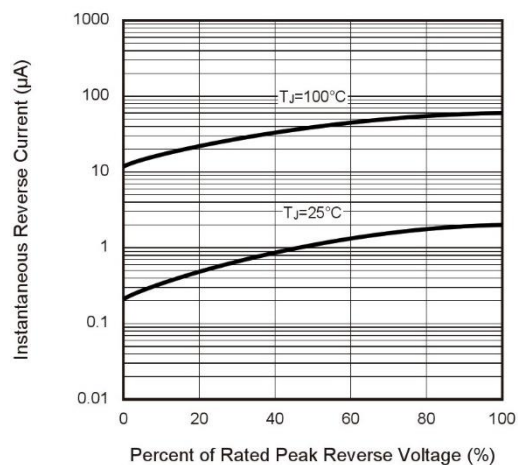


Fig.4 - Typical Reverse Leakage Characteristics



ORDER INFORMATION

Part Number	Marking Code	Package	Quantity	Delivery Mode
2Wxx	2WxxG	WOB	1,000	Box

Note : "xx" defines voltage from 50V(2W005) to 1000V(2W10)