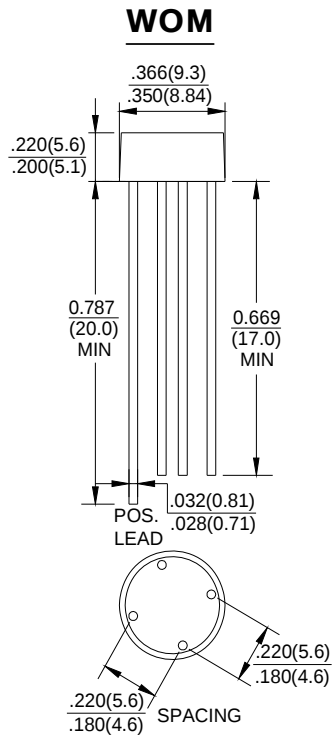




Reverse Voltage - 1000 V

Forward Current - 1.5 A

FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V#0

MECHANICAL DATA

- Polarity : As marked on body
- Weight : 1.25 grams
- Mounting position : Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	XW10G	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS Voltage	V_{RMS}	700	V
Maximum DC Blocking Voltage	V_{DC}	1000	V
Maximum Average Forward Rectified Current @ $T_C=75^\circ\text{C}$ (Note1)	$I_{(AV)}$	1.5	A
Peak Forward Surge Current 8.3ms single half sine-wave @ $T_J = 25^\circ\text{C}$	I_{FSM}	45	A
Maximum Forward Voltage at 1.5A DC	V_F	1.1	V
Maximum DC Reverse Current at rated Blocking Voltage @ $T_J=25^\circ\text{C}$ @ $T_J=125^\circ\text{C}$	I_R	5.0 500	μA
I^2t Rating for fusing ($3\text{ms} \leq t \leq 8.3\text{ms}$)	I^2t	8.4	A^2S
Typical Junction Capacitance per element (Note 2)	C_J	12	pF
Typical thermal resistance	$R_{\theta JC}$	30	$^\circ\text{C/W}$
Operation Temperature Range	T_J	-55 to +150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ\text{C}$

Note:1.Thermal resistance from junction to case mounted on PC board with 13 x 13mm (0.03mm thick) land areas.

2.Per element, measured at 1.0MHz and applied reverse voltage of 4.0V DC.

Typical Characteristics

Fig.1 Average Rectified Output Current Derating Curve

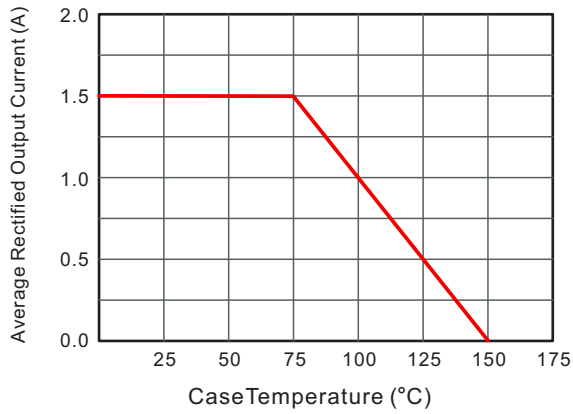


Fig.2 Typical Reverse Characteristics

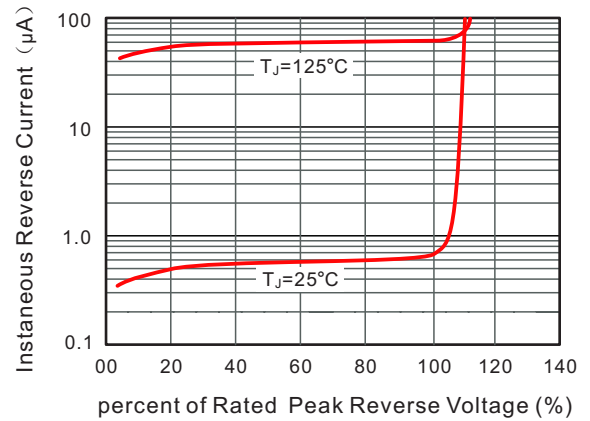


Fig.3 Typical Instantaneous Forward Characteristics

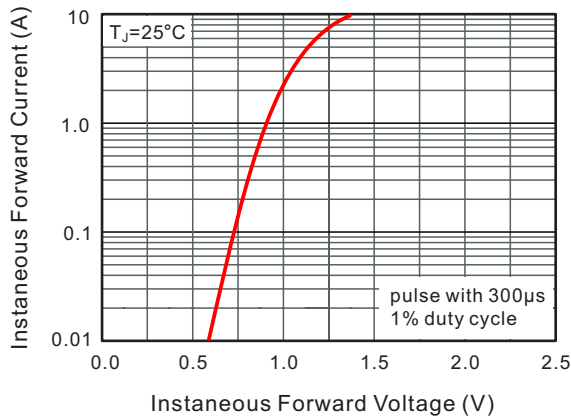


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current

