

W005G-G Thru. W10G-G Series

Reverse Voltage: 50 to 1000V

Forward Current: 1.5A

RoHS Device

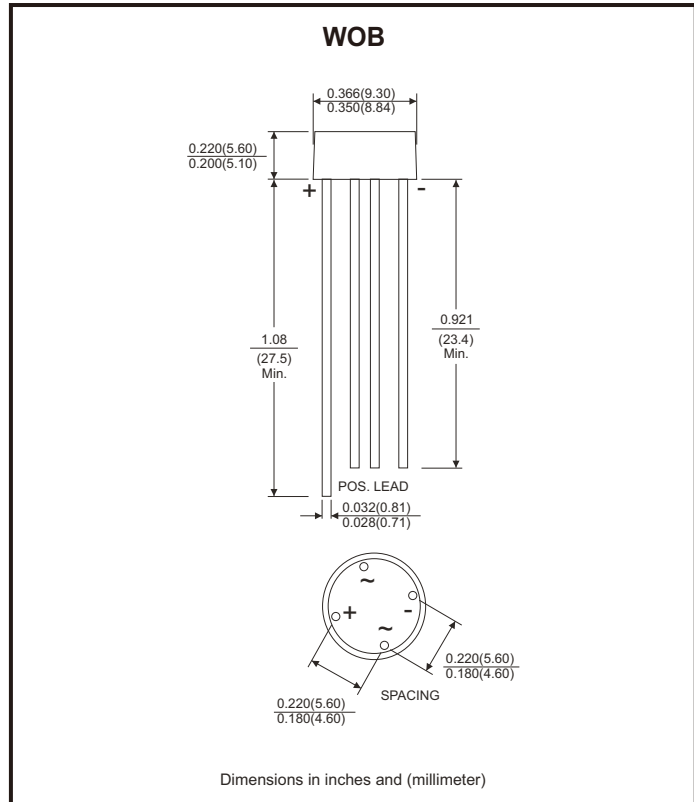


Features

- Ideal for printed circuit board.
- Glass passivated chip.
- High surge forward current capability.

Mechanical Data

- Polarity: As 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	W005G-G	W01G-G	W02G-G	W04G-G	W06G-G	W08G-G	W10G-G	Unit
Maximum recurrent 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 @ $T_A=25^\circ\text{C}$	I_{AV}	1.5							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	40							A
I^2t rating for fusing ($t < 8.3\text{ms}$)	I^2t	6.64							A ² s
Maximum forward voltage drop per element at 1.5A peak	V_F	1.1							V
Maximum reverse current at rated $T_J=25^\circ\text{C}$ DC blocking voltage per element $T_J=100^\circ\text{C}$	I_R	10 1							μA mA
Operating temperature range	T_J	-55 ~ +150							$^\circ\text{C}$
Storage temperature range	T_{STG}	-55 ~ +150							$^\circ\text{C}$

Rating and Characteristics Curves (W005G-G Thru. W10G-G Series)

Fig.1 - Maximum Non-Repetitive Surge Current

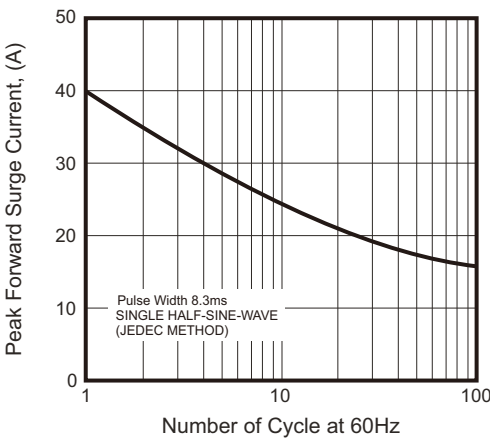


Fig.2 - Derating Curve Output Rectified Current

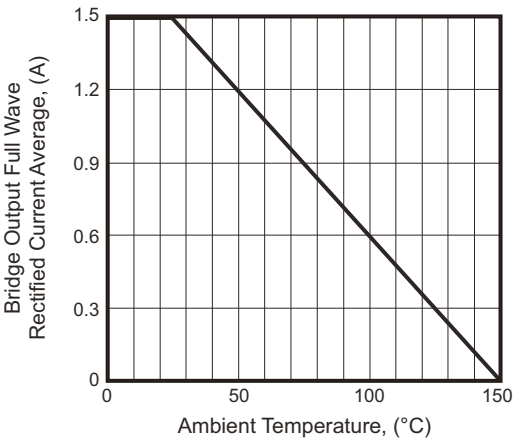


Fig.3 - Typical Forward Characteristics

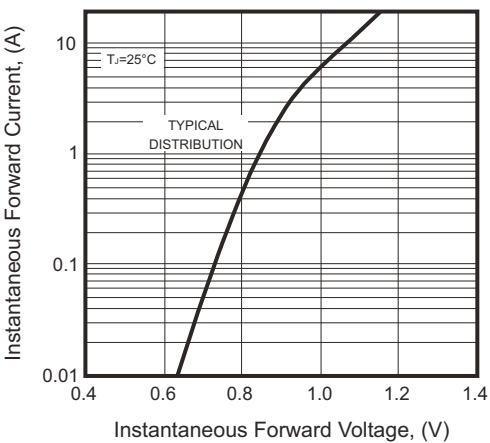
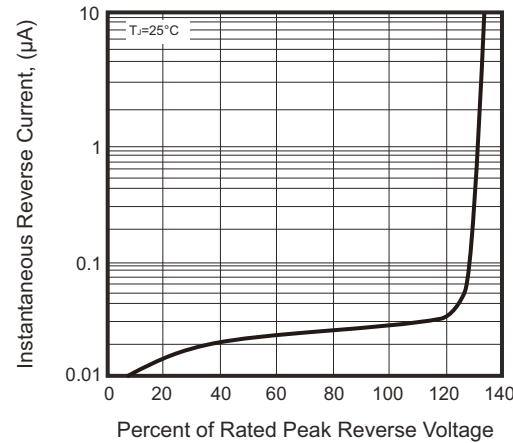


Fig.4 - Typical Reverse Characteristics



Marking Code

Part Number	Marking code
W005G-G	W005G
W01G-G	W01G
W02G-G	W02G
W04G-G	W04G
W06G-G	W06G
W08G-G	W08G
W10G-G	W10G

Standard Packaging

Case Type	BULK PACK	
	BOX (pcs)	CARTON (pcs)
WOB	1,000	10,000