



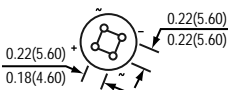
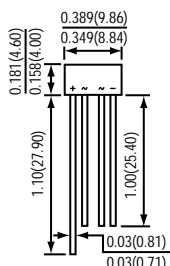
# 2W005G THRU 2W10G

## SINTERED GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 2.0 Amperes

**WOB**



\*Dimensions in inches and (millimeters)



### FEATURES

- \* Glass Passivated Die Construction
- \* Diffused Junction
- \* Low Forward Voltage Drop, High Current Capability
- \* Surge Overload Rating to 60A Peak
- \* Ideal for Printed Circuit Boards
- \* Case to Terminal Isolation Voltage 2500V
- \* Plastic Material has Underwriters Laboratory Flammability Classification 94V-0

### MECHANICAL DATA

**Case :** Molded Plastic  
**Terminals :** Plated leads solderable per MIL-STD-750, Method 2026  
**Polarity :** As marked on Body  
**Mounting Position :** Any  
**Weight :** 1.3 grams (approx)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	2W							UNITS
		005G	01G	02G	04G	06G	08G	10G	
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current @TA=25°C	I (AV)	2.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	60							Amps
Maximum instantaneous forward voltage at 2.0 A	VF	1.1							Volts
Maximum DC reverse current @TA=25°C at rated DC blocking voltage @TA=125°C	IR	5.0 500							uA
Typical junction capacitance (NOTE 1)	CJ	16							pF
Typical thermal resistance junction to case	R θ JC	63							K / W
Operating junction and storage temperature range	TJ,TSTG	-65 to +150							°C

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts  
 (2) Thermal resistance from junction to case mounted on PC board with 13 X 13mm (0.03mm thick) land areas.

# RATINGS AND CHARACTERISTIC CURVES 2W005G THRU 2W10G

FIG.1 - FORWARD CURRENT DERATING CURVE

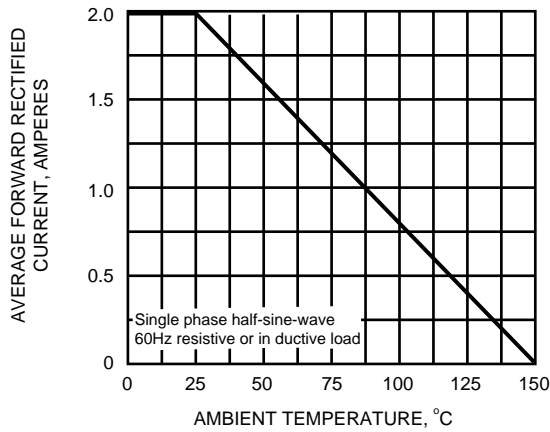


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

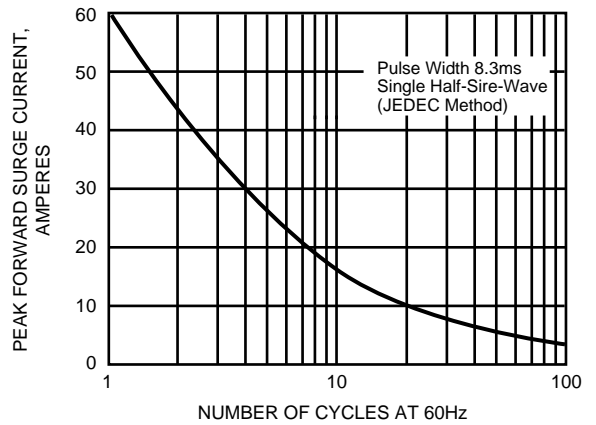


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

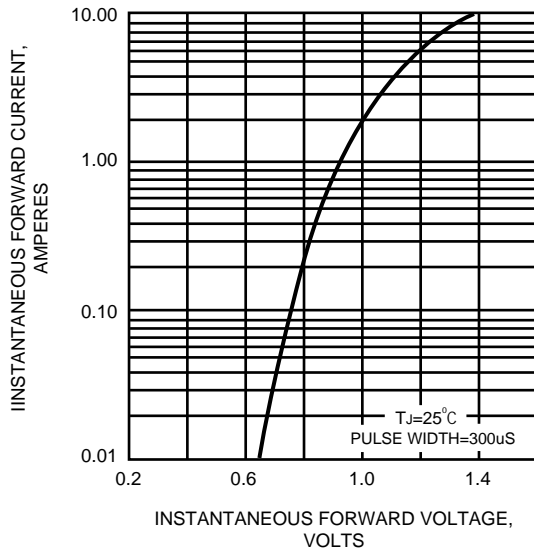


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

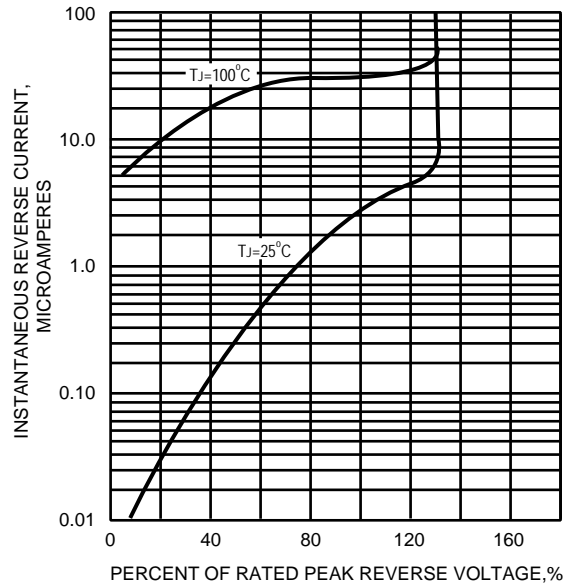


FIG.5 - TYPICAL JUNCTION CAPACITANCE

