SEMICONDUCTOR

DATA SHEET

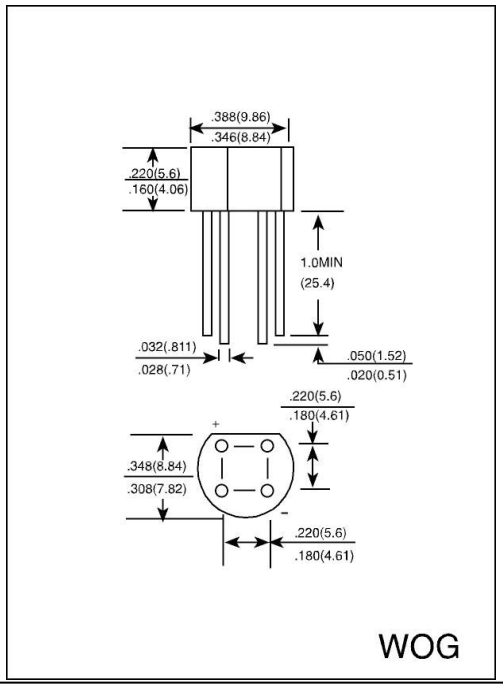
2W005G THRU 2W10G

Glass Passivated Bridge Rectifiers

FEATURES

- Plastic package has underwriters laboratory
- Flammability classification 94V-0
- This seeries is UL recognized under component index, file number E127707
- Glass passivated chip junction
- High case dielectric strength
- Typical IR less than 0.5_A
- High surge current capability
- Ideal for printed circuit boards
- High temperature soldering guaranteed
  260_/10 seconds, 0.375" (9.5mm) lead length at 5 lbs (2.3kg) tension
- High temperature soldering : 260^{O}C / 10 seconds at terminals
- Pb free product at available : 99% Sn above meet RoHS
  environment substance directive request

WOG Unit: inch(mm)



MECHANICAL DATA

- Case: Molded Plastic body over passivated junctions
- Terminal: Plated leads solderable per MIL - STD - 750
  method 2026
- Mounting position : Any
- Weight: 0.04 ounce, 1.1 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25_ ambient temperature unless otherwise specified

	SYMBOLS	2W005G	2W01G	2W02G	2W04G	2W06G	2W08G	2W10G	UNIT
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, at 0.375' (9.5mm) lead length (Note 1)	IF(AV)	2.0							Amps
Peak Forward Surge Current 8.3ms single half sine - wave superimposed on rated load (JEDEC method)	IFSM	60							Amps
Rating for Fusing (t<8.3ms)	I2t	15							A2s
per element at 2.0A DC Maximum Instantaneous Forward Voltage Drop	VF	1.1							Volts
Maximum Average Reverse Current TA=25℃	IR	5.0							μA
at rated DC blocking voltage TA=125℃		500							μA
Typical Junction Capacitance per leg at 4.0V, 1MHz	Cj	40				20			pF
Typical Thermal Resistance per leg (Note1)	R_JI	15							℃/W
	R_JA	40							
Operating Temperature Range	TJ	-55 to +150							℃
Storage Temperature Range	TSTG	-55 to +150							

NOTES:

1. Thermal resistance from junction to lead at 0.375" (9.5mm) lead length P.C.B. mounting.

DEVICE CHARACTERISTICS

2W005G THRU 2W10G

FIG. 1 - DERATING CURVE OUTPUT RECTIFIED CURRENT

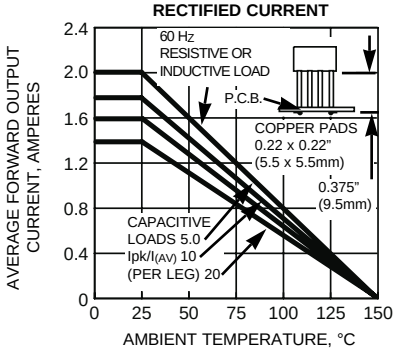


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

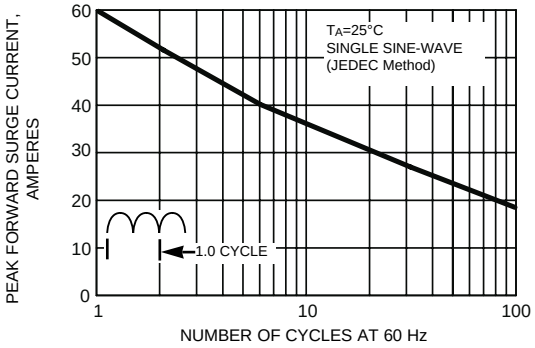


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS PER LEG

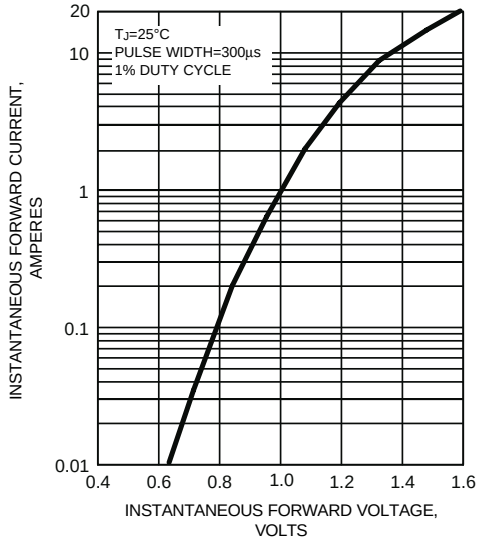


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS PER LEG

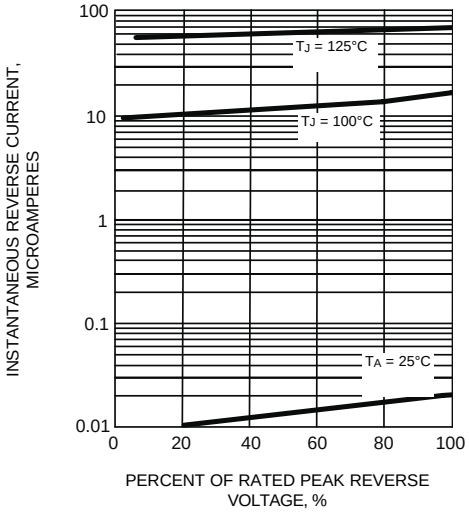


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER LEG

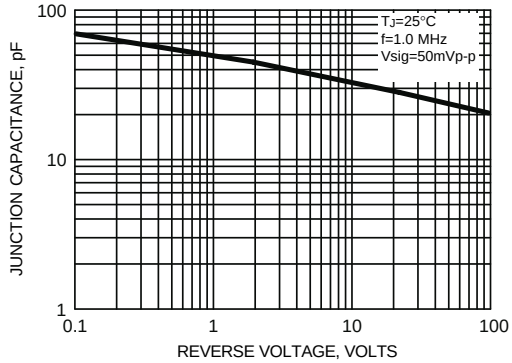


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

