



GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

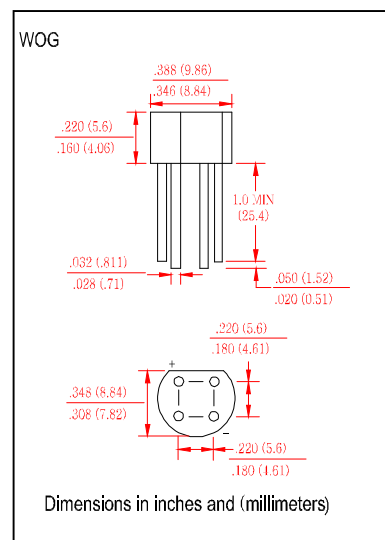
2W005G THRU 2W10G

FEATURES

- Plastic package has underwriters laboratory
- Flammability classification 94V-0
- This series is UL recognized under component index, file number E127707
- Glass passivated ship junction
- High case dielectric strength
- Typical I_R less than $0.5 \mu A$
- High surge current capability
- Ideal for printed circuit boards
- High temperature soldering guaranteed $260^\circ C/10$ seconds, $0.375''$ (9.5mm) lead length at 5 lbs (2.3kg) tension

MECHANICAL DATA

- Case: Epoxy, 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 $25^\circ C$ ambient temperature unless otherwise specified

		SYMBOLS	2W005G	2W01G	2W02G	2W04G	2W06G	2W08G	2W10G	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at 0.375" (9.5mm) lead length (Note 1)		I _{F(AV)}	2.0							Amps
Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	60							Amps
Rating for Fusing (t<8.3ms)		I ² t	15							A ² s
Maximum Instantaneous Forward Voltage Drop Per element at 1.5A DC		V _F	1.1							Volts
Maximum Average Reverse Current at rated DC Blocking Voltage	T _A = 25°C	I _R	5.0							μA
	T _A = 125°C		500.0							μA
Typical Junction Capacitance per leg at 4.0V, 1MHz		C _j	40				20			pF
Typical Thermal Resistance per leg (NOTE 1)		R _{θJL}	15							°C/W
		R _{θJA}	40							
Operating Temperature Range		T _J	(-55 to +150)							°C
Storage Temperature Range		T _{STG}	(-55 to +150)							

Notes: 1. Thermal resistance from junction to lead at $0.375''$ (9.5mm) lead length P.C.B. mounting.



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RATINGS AND CHARACTERISTICS CURVES 2W005G THRU 2W10G

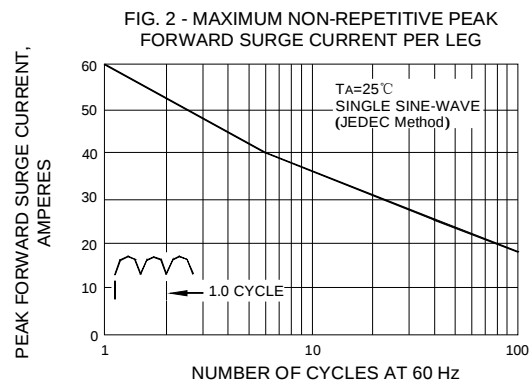
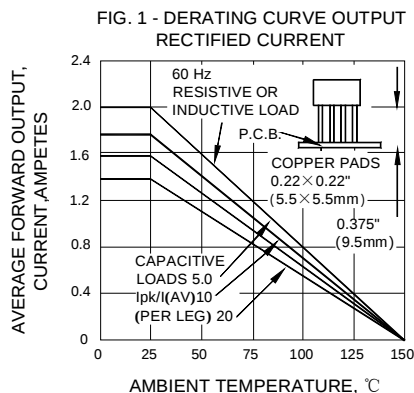


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS PER LEG

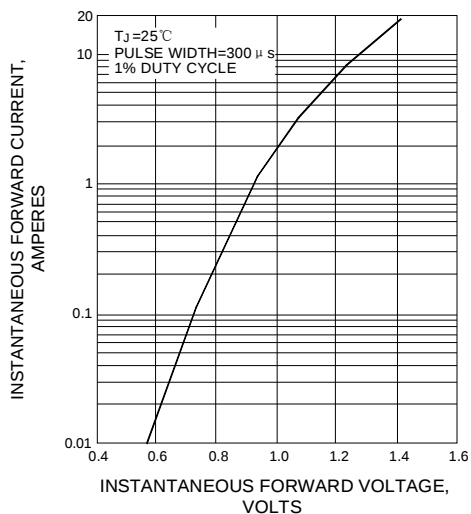


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS PER LEG

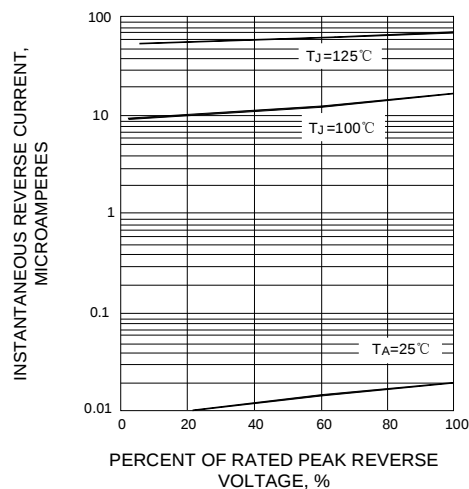


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER LEG

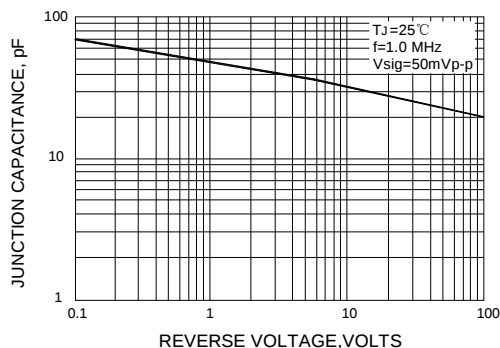


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

