



SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

2W005G THRU 2W10G

VOLTAGE RANGE
CURRENT

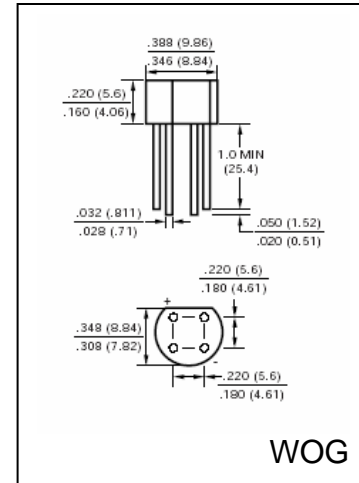
50 to 1000 Volts
2.0 Ampere

FEATURES

- Plastic package has UL flammability Classification 94V-0
- This series UL recognized
- Glass passivated chip junction
- Typical leakage current of < 0.5µA
- High Case dielectric strength
- High Surge current capability
- High temperature soldering guaranteed: 260°C / 10 seconds

MECHANICAL DATA

- Case: Molded plastic body
- 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°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

	SYMBOLS	2W 005G	2W 01G	2W 02G	2W 04G	2W 06G	2W 08G	2W 10G	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 $T_C = 25^\circ C$ (Note 1)	$I_{(AV)}$	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^2t	15							A ² s
Maximum Instantaneous Forward Voltage per element at 1.0A	V_F	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	I_R	5.0							µA
		500							
Typical Junction Capacitance, per leg (Measured at 1.0MHz and applied reverse voltage of 4.0V)	C_J	40				20			pF
Typical Thermal Resistance per leg (Note 1)	$R_{\theta JA}$	15							°C/W
	$R_{\theta JL}$	40							
Operating Junction Temperature Range	T_J	(-55 to +150)							°C
Storage Temperature Range	T_{STG}	(-55 to +150)							°C

Notes:

1. Thermal resistance from junction to lead at 0.375" (9.5mm) lead length mounted on PCB



RATINGS AND CHARACTERISTIC CURVES 2W005G THRU 2W10G

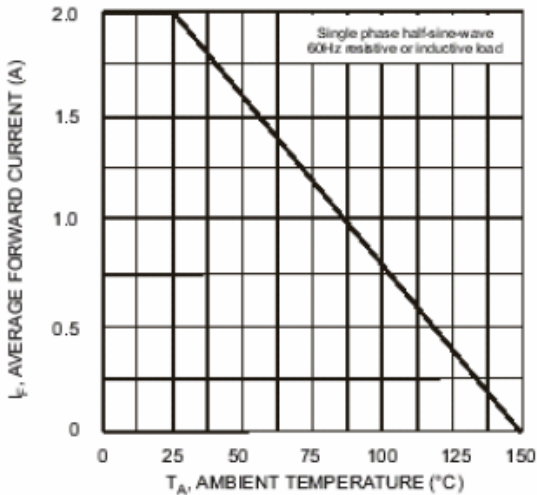


Fig. 1 Forward Current Derating Curve

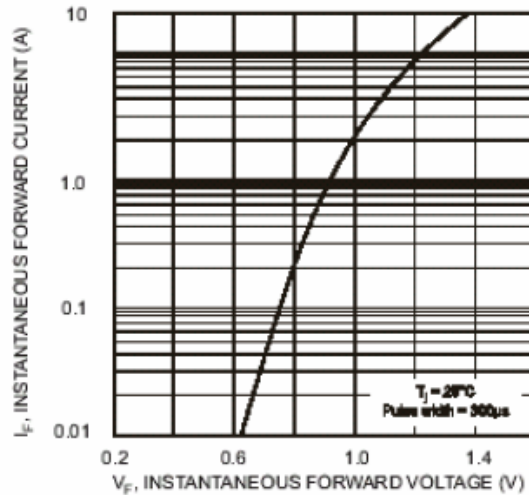


Fig. 2 Typical Forward Characteristics

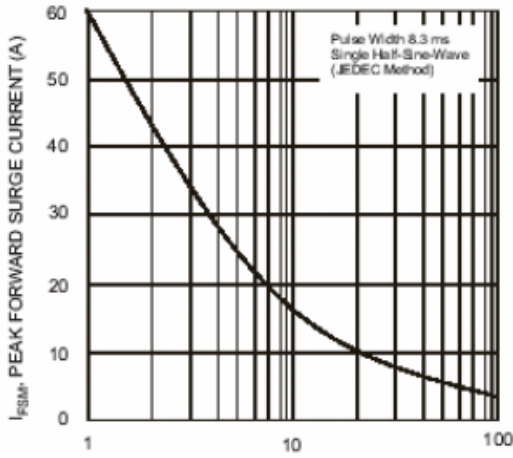


Fig. 3 Max Non-Repetitive Surge Current

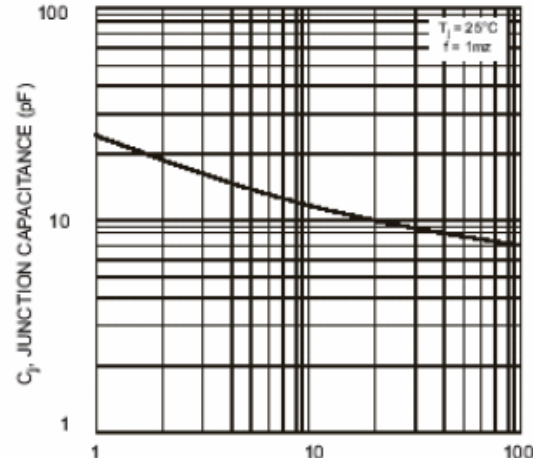


Fig. 4 Typical Junction Capacitance

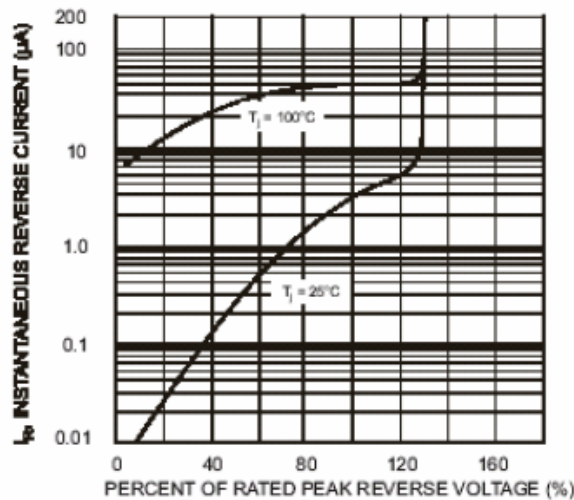


Fig. 5 Typical Reverse Characteristics