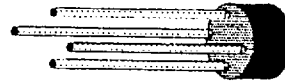


2W005G thru 2W10G

2 AMP GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIERS



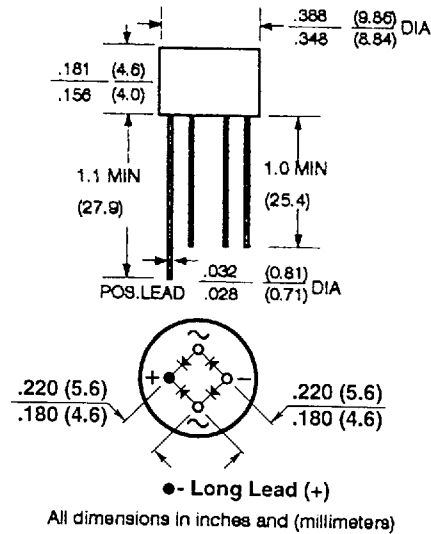
VOLTAGE RANGE
50 to 1000 Volts
CURRENT
2.0 Amperes

FEATURES

- Rating to 1000V PRV
- Surge overload rating to 80 Ampere speak.
- Ideal for printed circuit board.
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product.
- Lead solderable per MIL-STD-202 Method 208.
- Plastic material has UL flammability classification 94V-0

MECHANICAL DATA

- Case : Molded plastic
- Terminals: Plated leads, solderable per MIL-STD-750 method 2026
- Weight : 0.05 ounces, 1.3 grams
- Mounting position : Any



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%.

		2W005G	2W01G	2W02G	2W04G	2W06G	2W08G	2W10G	UNITS
Maximum Recurrent 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	
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	
Maximum Average Forward Rectifier Current 0.375" (9.5mm) Lead Lengths	$I_{(AV)}$	2							Amps
Peak Forward Surge Current 8.3ms single half-sine-wave superimposed on rated load. (JEDEC Method)	I_{FSM}	60							
Maximum Forward Voltage at 2.0A DC.	V_F	1.1							Volts
Maximum DC Reverse Current $T_C = 25^\circ C$ at Rated DC Blocking Voltage $T_C = 125^\circ C$	I_R	5							μA
		500							
Typical Junction Capacitance per element. *	C_J	16							pF
Typical Thermal Resistance **	$R_{\theta JA}$	40							$^\circ C/W$
Operating Temperature Range	T_J	-55 to 150							$^\circ C$
Storage Temperature Range	T_{STG}	-55 to 150							

NOTES : * Measured at 1.0 MHz and applied reverse voltage of 4.0VDC.

** Thermal Resistance Junction to Ambient at 0.375" (9.5mm) Lead Lengths, PC Board Mounted.

FIG.1 - FORWARD CURRENT DERATING CURVE

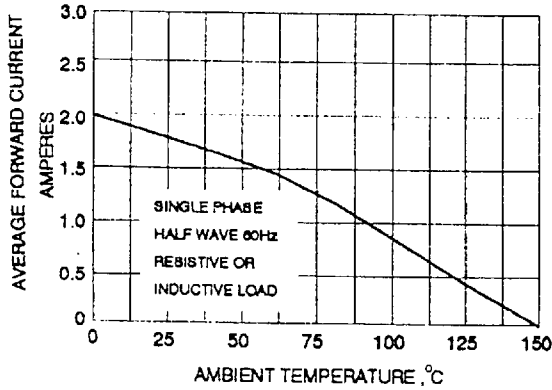


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

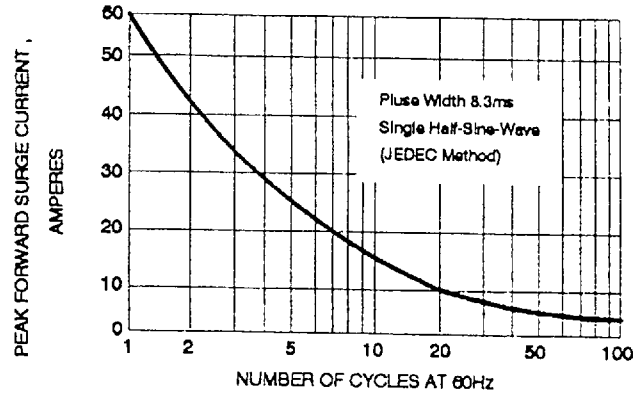


FIG.3 - TYPICAL JUNCTION CAPACITANCE

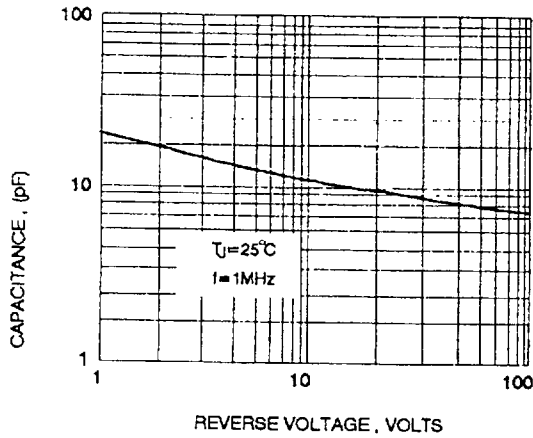


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

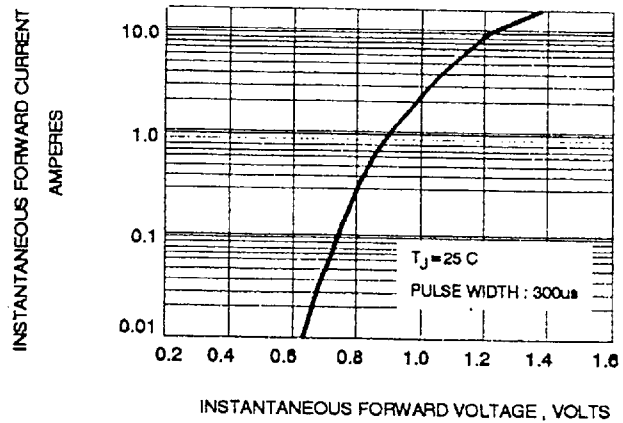


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

