

EDCON-COMPONENTS

**Silicon Passivated Single-Phase Bridge Rectifiers Reverse Voltage 50 to 1000 Volts
Forward Current 1.5 Amperes**



**W005GM thru
W10GM**



- Surge overload ratings to 40 or 50 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed: 260°C / 10 sec / 0.375" (9.5mm) lead length at 5lbs. (2.3 kg) tension

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	Symbol	W 005GM	W 01GM	W 02GM	W 04GM	W 06GM	W 08GM	W 10GM	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_A = 50^\circ\text{C}$	$I_{(AV)}$	1.5							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	50							A
Maximum Instantaneous Forward Voltage @ 1.5A	V_F	1.0							V
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=125^\circ\text{C}$	I_R	10 500							μA μA
Typical Thermal Resistance (Note)	$R\theta_{JA}$ $R\theta_{JL}$	36 13							$^\circ\text{C/W}$
Operating Temperature Range	T_J	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

Notes:

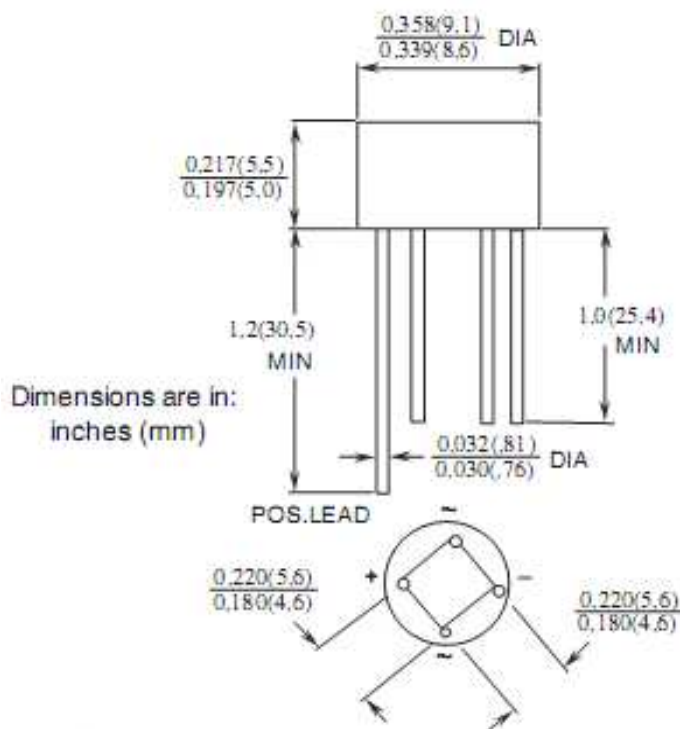
1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
2. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.47 X 0.47"(12 X 12mm) copper pads.

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Technical Drawing



Mechanical Data

- Case: Molded plastic
- Lead: solder plated
- Polarity: As marked
- Weight: 1.10 grams

Ratings and characteristic curve

(TA = 25 °C unless otherwise noted)

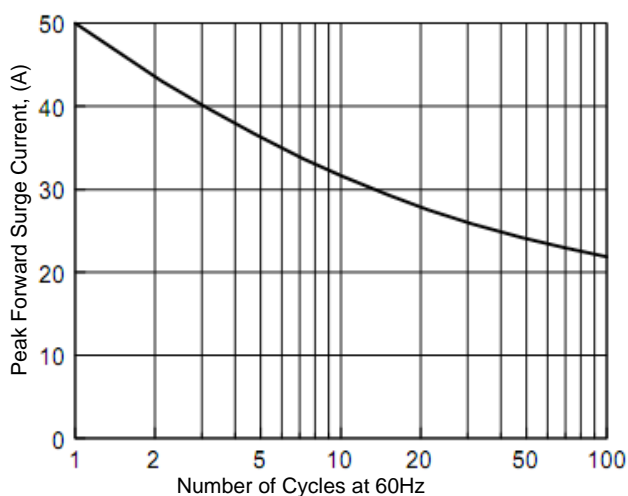


Figure 1. Maximum Forward Surge Current

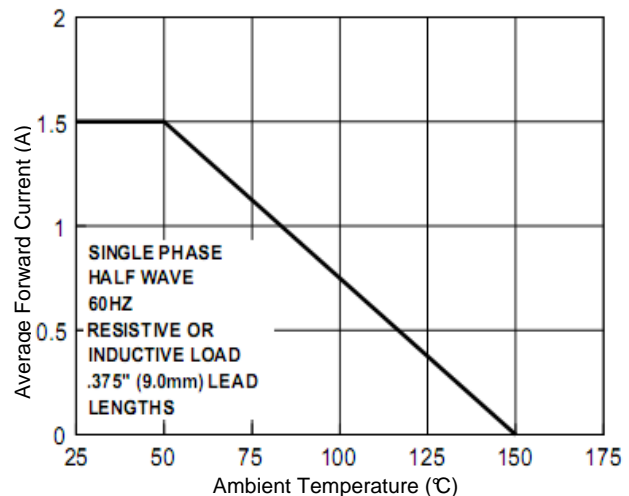


Figure 2. Derating Curve Output Rectified Current

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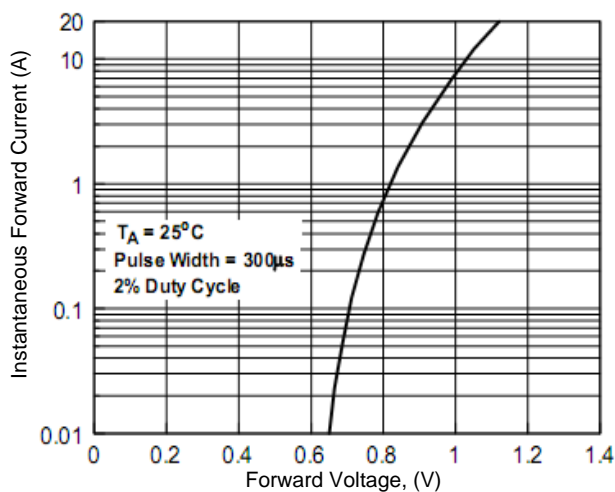


Figure 3. Typical Instantaneous Forward Characteristics

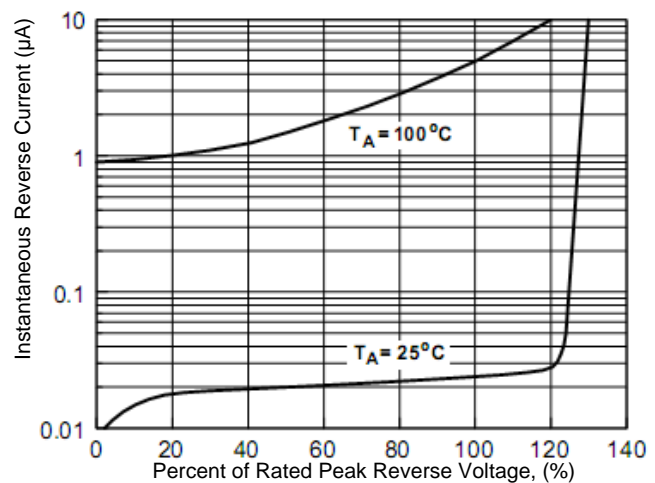


Figure 4. Typical Reverse Characteristics

Ordering Information

Serie					
E21005	W0GM	TU			
	W005GM	TR = Tape reel			
	W01GM				
	W02GM	TU = Tube			
	W04GM				
	W06GM				
	W08GM				
	W10GM				

Round Silicon THT