EDCON-COMPONENTS

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





- Surge overload ratings to 40 or 50 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product

W005G thru W10G

- High temperature soldering guaranteed: 260 $^{\circ}$ / 10 sec / 0.375" (9.5mm)
- lead length at 5lbs. (2.3 kg) tension

Maximum Ratings and Electrical Characteristics

Rating at 25 ℃ ambient temperature unless otherwis e specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

	W005G	W01G	W02G	W04G	W06G	W08G	W10G	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge input Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Current T _A =50°C	1.5							Α
Peak Forward Surge Current, 8.3ms singlehalf sine-wave superimposed on rated load	50.0							A
I ² t Rating for fusing (t < 8.35 ms)	10.0							A ² S
Maximum Forward Voltage Drop per Bridge Element at 1.0A	1.0							V
Maximum Reverse Current at Rated TJ= 25°C	10.0							μA
DC Blocking Voltage per element TJ=100°C	1.0							mA
Typical Junction capacitance per leg (Note 1) CJ	24.0							pF
Typical Thermal resistance per leg (Note 2) $R\theta JA$	36.0							°C/W
Typical Thermal resistance per leg (Note 2) R0JA	13.0							
Operating Temperature Range T _J	-55 to +125							°C
Storage Temperature Range T _A	-55 to +150							°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.

Round Silicon THT

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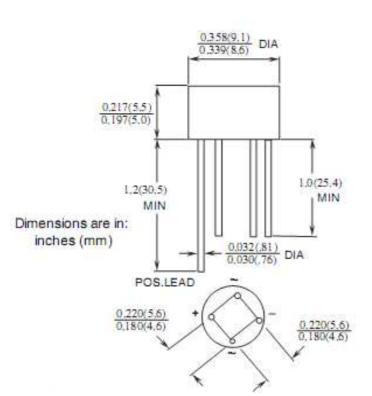
Silicon Passivated Single-Phase Bridge Rectifiers Reverse Voltage 50 to 1000 Volts **Forward Current 1.5 Amperes** MPONE N TS \mathbf{O}

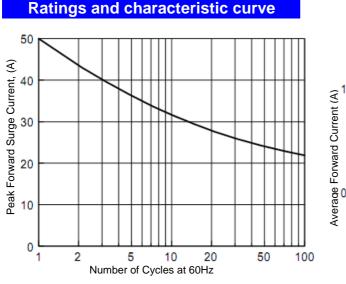
Mechanical Data

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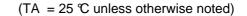
- Case: Molded plastic
- Lead: solder plated
- Polarity: As marked
- Weight: 1.10 grams

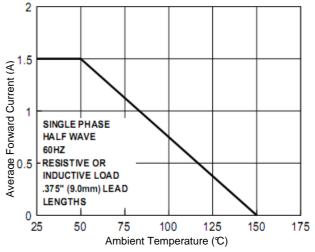
Round Silicon THT

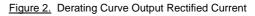














Technical Drawing

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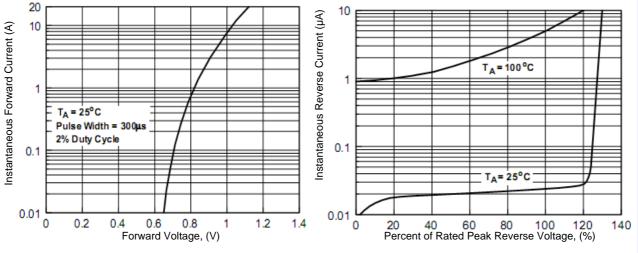
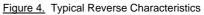


Figure 3. Typical Instantaneous Forward Characteristics



Ordering Information

Serie

E21004

TU W0G W005G TR = Tape W01G reel W02G TU = Tube W04G W06G

www.edcon-components.com

W08G W10G

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Round Silicon THT