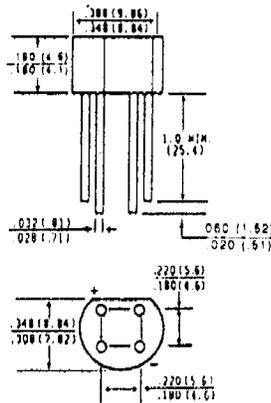


## W005G THRU W10G

MINIATURE GLASS PASSIVATED SINGLE-PHASE SILICON BRIDGE RECTIFIER  
VOLTAGE - 50 to 1000 Volts CURRENT - 1.5 Amperes

### FEATURES

- ◆ Glass passivated chip junctions
- ◆ Plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- ◆ High case dielectric strength
- ◆ Typical  $I_R$  less than  $0.1 \mu A$
- ◆ High overload surge capability
- ◆ Ideal for printed circuit board
- ◆ High temperature soldering guaranteed: 265° C / 10 seconds / .375", (9.5mm) lead length / 5lbs., (2.3 kg) tension



Dimensions in inches  
and  
(millimeters)

### MECHANICAL DATA

**Case:** Molded plastic

**Terminals:** Leads solderable per MIL-STD-202, Method 208

**Weight:** 0.04 ounce, 1.1 grams

**Mounting Position:** Any

**Weight:** 0.04 ounce, 1.1 grams

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.  
60 Hz, resistive or inductive load.

	SYMBOLS	W 005G	W 01G	W 02G	W 04G	W 06G	W 08G	W 10G	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	Volts
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at 375°, (9.5mm) lead length at $T_A = 25^\circ C$	$I_{(AV)}$	1.5							Amps
Peak Forward Surge Current Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	50.0							Amps
Rating for fusing (1<math>t</math>=8.3ms)	$I_t^2$	10.0							A <sup>2</sup> s
Maximum Instantaneous Forward Voltage Drop per element at 1.0 Amperes	$V_f$	1.0							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage per Bridge Element	$I_R$	5.0							$\mu A$
Typical Junction Capacitance per element	$C_J$	14.0							pf
Typical Thermal Resistance	$R_{\theta JA}$	36.0							°C/W
Operating Temperature Range	$T_A$	-55 to +150			-55 to +125				°C
Storage Temperature Range	$T_{STG}$	-55 to +150							°C



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