New Jersey Semi-Conductor Products, Inc.

20 STERN AVE.
SPRINGFIELD, NEW JERSEY 07081
U.S.A.

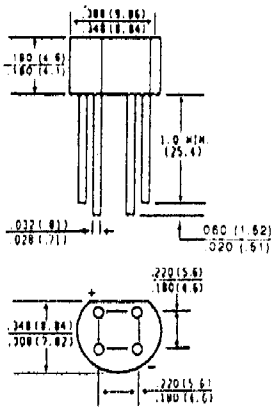
TELEPHONE: (973) 376-2922
(212) 227-6005
FAX: (973) 376-8960

W005G THRU W10G

MINIATURE GLASS PASSIVATED SINGLE-PHASE SILICON BRIDGE RECTIFIER

***VOLTAGE** - 50 to 1000 Volts **CURRENT** - 1.5 Amperes*

FEATURES



Dimensions in inches and (millimeters)

- Glass passivated chip junctions
- Plastic material used carries Underwriters Laboratory flammability recognition 94V-O
- High case dielectric strength
- Typical I_R less than 0.1 μA
- 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



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°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 (t<8.3ms)	I^2t	10.0							A^2s
Maximum Instantaneous Forward Voltage Drop per element at 1.0 Amperes	V_F	1.0							Volts
Maximum DC Reverse Current at Rated T_A = 25°C	I_R	5.0							μA
DC Blocking Voltage per Bridge Element T_A = 125°C		500							
Typical Junction Capacitance per element	C_J	14.0							pf
Typical Thermal Resistance	RΘJA	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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Quality Semi-Conductors