



# W005G Thru W10G

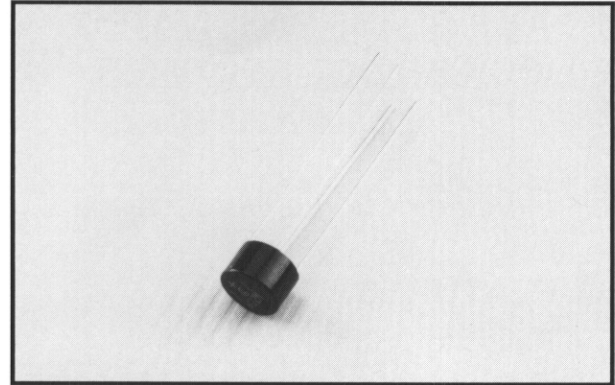
## 1.5 AMP GLASS PASSIVATED BRIDGE RECTIFIER

### FEATURES

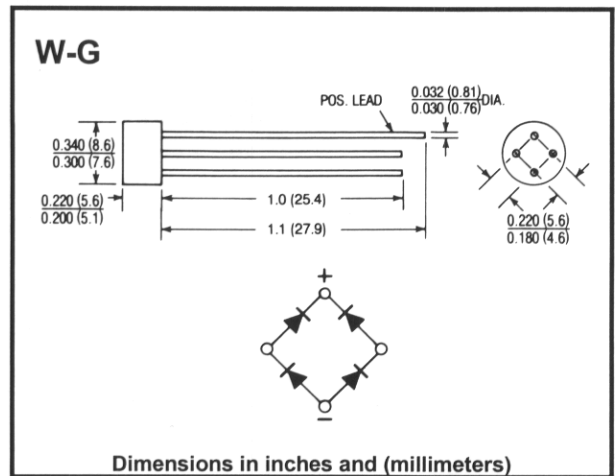
- Rating to 1000V PRV
- Surge overload rating to 50 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- UL recognized: File #E106441
- UL recognized 94V-O plastic material

### Mechanical Data

- Case: Molded plastic
- Weight: 0.05 ounce, 1.3 grams
- Mounting Position: Any



### Outline Drawing



### Maximum Ratings & 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%

|  |                | W005G       | W01G | W02G | W04G | W06G | W08G | W10G | 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  | $V_{DC}$       | 60          | 100  | 200  | 400  | 600  | 800  | 1000 | V            |
| Maximum Average Forward Output Current @ $T_A = 25^\circ C$                        | $I_{(AV)}$     | 1.5         |      |      |      |      |      |      | A            |
| Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load | $I_{FSM}$      | 50          |      |      |      |      |      |      | A            |
| Maximum DC Forward Voltage Drop per Element At 1.0A DC                             | $V_F$          | 1           |      |      |      |      |      |      | V            |
| Maximum DC Reverse Current At Rated @ $T_A = 25^\circ C$                           | $I_R$          | 5           |      |      |      |      |      |      | $\mu A$      |
| DC Blocking Voltage per Element @ $T_A = 100^\circ C$                              |                | 500         |      |      |      |      |      |      |              |
| Typical Junction Capacitance Per Element *   | $C_J$          | 12          |      |      |      |      |      |      | pF           |
| Typical Thermal Resistance **  | $R_{(TH J-A)}$ | 40          |      |      |      |      |      |      | $^\circ C/W$ |
| Operating Temperature Range  | $T_J$          | -40to +150  |      |      |      |      |      |      | $^\circ C$   |
| Storage Temperature Range  | $T_{STG}$      | -40 to +150 |      |      |      |      |      |      | $^\circ C$   |

Notes: \* Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

\*\* Thermal resistance junction to ambient at .375" (9.55mm) lead length, PC board mounted