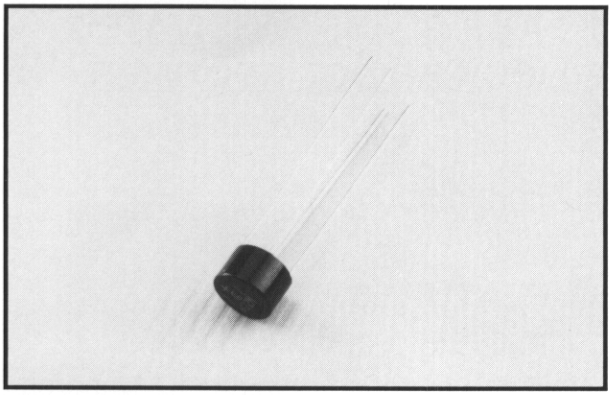
# W005G Thru W10G

## 1.5 AMP GLASS PASSIVATED BRIDGE RECTIFIER



## FEATURES

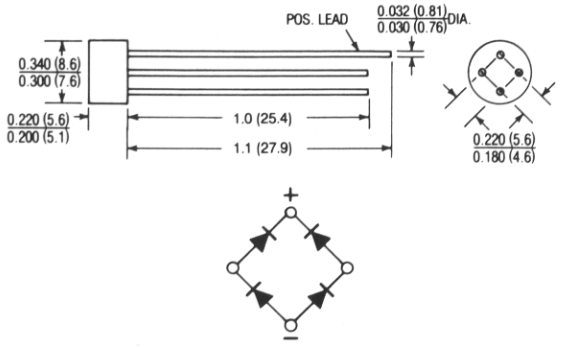
- Rating to 1000V PRV
- Surge overload rating to 50 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- UL recognized: File #E106441
- UL recognized 94V-O plastic material

## Mechanical Data

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

## Outline Drawing

**W-G**




Dimensions in inches and (millimeters)

## 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 @ $T_A$ = 25°C Output Current | $I_{(AV)}$ | 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°C<br>DC Blocking Voltage per Element @ $T_A$ = 100°C | $I_R$ | 5<br>500 | | | | | | | µA |
| Typical Junction Capacitance Per Element * | $C_J$ | 12 | | | | | | | pF |
| Typical Thermal Resistance ** | $R_{(TH\ J-A)}$ | 40 | | | | | | | °C/W |
| Operating Temperature Range | $T_J$ | -40to +150 | | | | | | | °C |
| Storage Temperature Range | $T_{STG}$ | -40 to +150 | | | | | | | °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