



2W005G Thru 2W10G

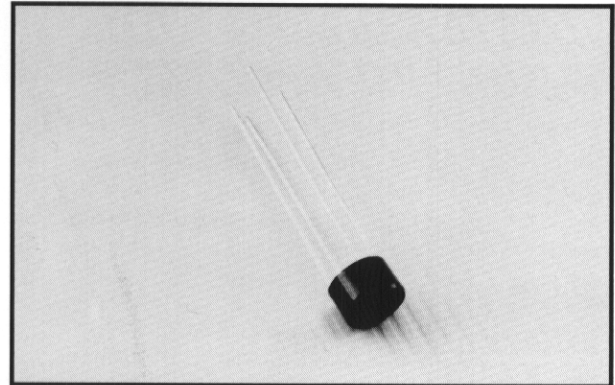
2 AMP GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

FEATURES

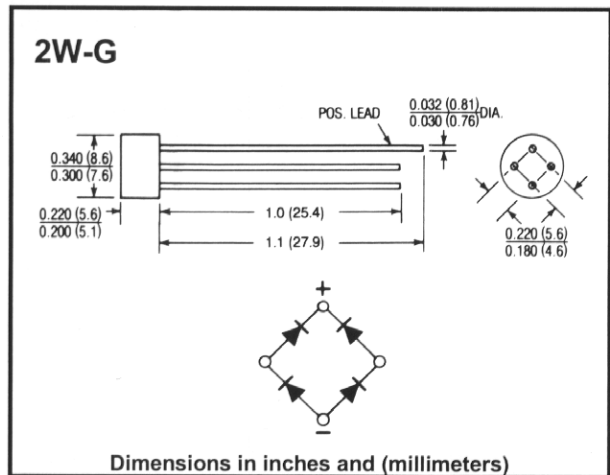
- Rating to 1000V PRV
- Surge overload rating to 60 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- UL recognized: File #E106441
- UL recognized 94V-O plastic material

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%

| | | 2W005G | 2W01G | 2W02G | 2W04G | 2W06G | 2W08G | 2W10G | 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 @ $T_A = 25^\circ C$ | $I_{(AV)}$ | 2.0 | | | | | | | A |
| Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load | I_{FSM} | 60 | | | | | | | A |
| Maximum DC Forward Voltage Drop per Element At 1.0A DC | V_F | 1.1 | | | | | | | V |
| Maximum DC Reverse Current At Rated DC Blocking Voltage per Element @ $T_A = 125^\circ C$ | I_R | 5 | | | | | | | μA |
| Typical Junction Capacitance Per Element * | C_J | 16 | | | | | | | pF |
| Typical Thermal Resistance ** | $R_{(TH J-A)}$ | 40 | | | | | | | $^\circ C/W$ |
| Operating Temperature Range | T_J | -55 to +150 | | | | | | | $^\circ C$ |
| Storage Temperature Range | T_{STG} | -55 to +150 | | | | | | | $^\circ C$ |

Notes: *Measured at 1.0MHZ and applied reverse voltage of 4.0V DC

** Thermal resistance junction to ambient at .375" (9.5mm) lead length, PC board mounted