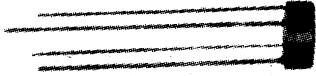




1W005G THRU 1W10G

SINGLE PHASE 1.0 AMP . GLASS PASSIVATED BRIDGE RECTIFIERS



VOLTAGE RANGE

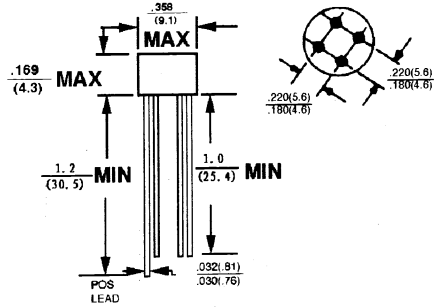
50 to 1000 Volts

CURRENT
1.0 Ampere

FEATURES

- * Surge overload ratings to 30 amperes peak
- * Ideal for printed circuit board
- * Reliable low cost construction technique results in inexpensive product

RB-15



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%

| TYPE NUMBER | SYMBOLS | 1W 005G | 1W 01G | 1W 02G | 1W 04G | 1W 06G | 1W 08G | 1W 10G | UNITS |
|--|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|--------------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Bridge Input Voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum D.C Blocking Voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current @ $T_A = 50^\circ C$ | $I_{F(AV)}$ | 1.0 | | | | | | | A |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | I_{FSM} | 30 | | | | | | | A |
| Maximum Forward Voltage Drop per element @ 1.0A | V_F | 1.10 | | | | | | | V |
| Maximum Reverse Current at Rated @ $T_A = 25^\circ C$ D.C. Blocking Voltage per element @ $T_A = 125^\circ C$ | I_R | 10 500 | | | | | | | μA μA |
| Operating Temperature Range | T_J | -55 to +150 | | | | | | | $^\circ C$ |
| Storage Temperature Range | T_{STG} | -55 to +150 | | | | | | | $^\circ C$ |

RATINGS AND CHARACTERISTIC CURVES (1W005G THRU 1W10G)

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT - PER ELEMENT

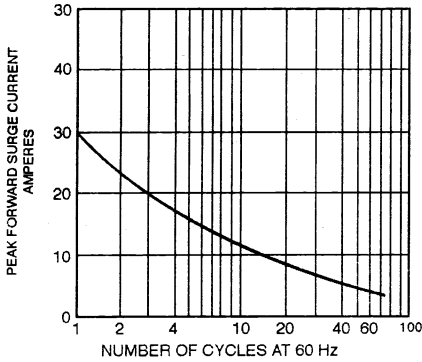


FIG. 2 - TYPICAL FORWARD OUTPUT CURRENT DERATING CURVE

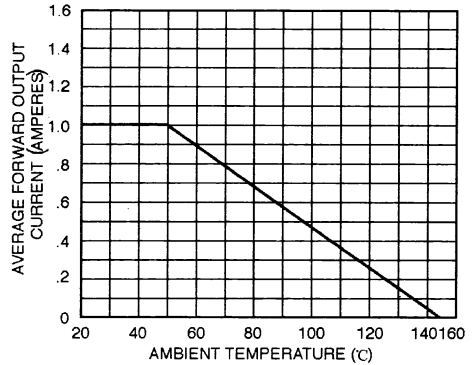


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS PER ELEMENT

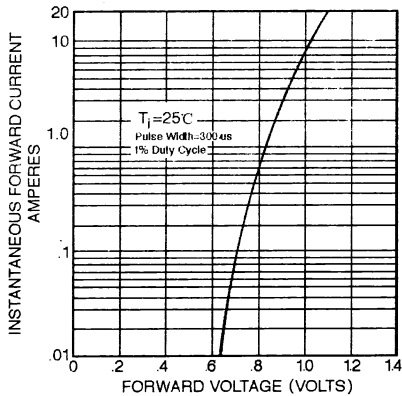


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS PER ELEMENT

