

2W005M THRU 2W10M

Single Phase 2.0 AMPS. Silicon Bridge Rectifiers

Features

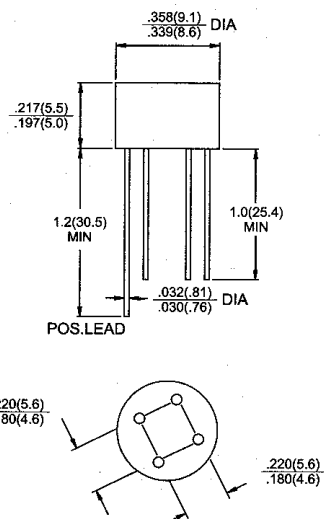
- UL Recognized
- Surge overload ratings to 30 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed: 250°C / 10 seconds / 0.375" (9.5mm) lead length at 5 lbs., (2.3 kg) tension

Mechanical Data

- Case: Molded plastic
- Lead: Solder plated
- Polarity: As marked
- Weight: 1.10 grams

Voltage Range
50 to 1000 Volts
Current
2.0 Amperes

WOB



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%

| Symbol | 2W 005M | 2W 01M | 2W 02M | 2W 04M | 2W 06M | 2W 08M | 2W 10M | Units |
|---|-------------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| Maximum Recurrent Peak Reverse Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current @ T _A = 50°C | 2.0 | | | | | | | A |
| Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | 50 | | | | | | | A |
| Maximum Instantaneous Forward Voltage @ 2.0A | 1.1 | | | | | | | V |
| Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =100°C | 10 500 | | | | | | | uA uA |
| Operating Temperature Range T _J | -55 to +125 | | | | | | | °C |
| Storage Temperature Range T _{STG} | -55 to +150 | | | | | | | °C |

RATINGS AND CHARACTERISTIC CURVES (2W005M THRU 2W10M)

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

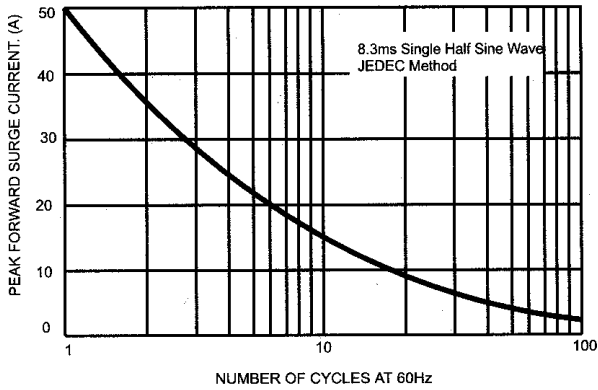


FIG.2- MAXIMUM CURRENT DERATING CURVE OUTPUT RECTIFIED CURRENT

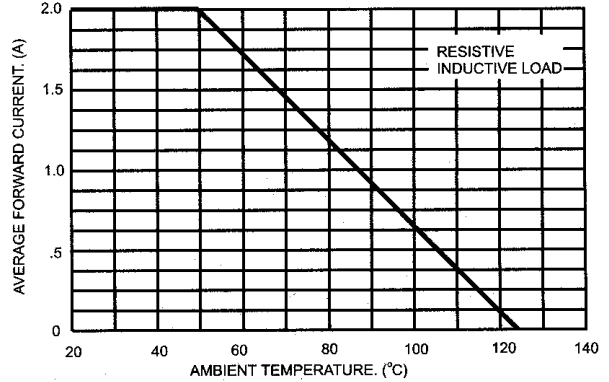


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

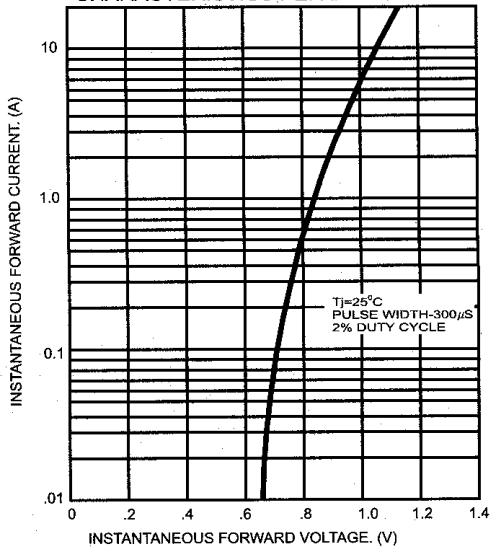


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

