W005 thru W10 SERIES

SINGLE-PHASE SILICON BRIDGE

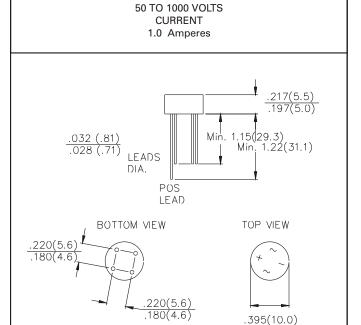


VOLTAGE RANGE



FEATURES

- Surge overload rating-50 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Mounting Position: Any
- Electrically isolated base-1800 volts



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL 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%.

| | | W005 | W01 | W02 | W04 | W06 | W08 | W10 | UNITS |
|--|-------------------|-------------|-----|-----|-----|-----|-----|------|------------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | ٧ |
| Maximum RMS Bridge Input Voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | ٧ |
| Maximum DC Blocking Voltage | V_{DC} | 60 | 100 | 200 | 400 | 600 | 800 | 1000 | ٧ |
| Maximum Average Forward Output Current @ T _A =25°C | V _(AV) | 1.0 | | | | | | | A |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load | I _{FSM} | 30 | | | | | | | А |
| Maximum DC Forward Voltage drop per element at 1.0A DC | V _F | 1.1 | | | | | | | ٧ |
| Maximum DC Reverse Current at rated @ T _A =25°C DC Blocking Voltage Per Element @ T _A =100°C | I _R | 10 | | | | | | | μ A |
| | | 1 | | | | | | | mA |
| I²t Rating for fusing(t<8.3ms) | l ² † | 3.7 | | | | | | | A ² S |
| Operating Temperature Range | T _J | -55 to +125 | | | | | | | °C |
| Storage Temperature Range | T _{STG} | -55 to +150 | | | | | | | °C |

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RATING AND CHARACTERISTICS CURVES W005 THRU W10

Fig.1 - MAXIMUM FORWARD SURGE CURRENT

FIG. 1 - MAXIMUM FORWARD SURGE CURRENT

FIG. 1

