

2.0 A Single-Phase Silicon Bridge Rectifier
Rectifier Reverse Voltage 50 to 1000V

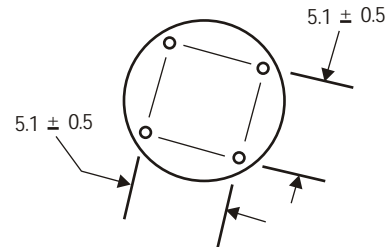
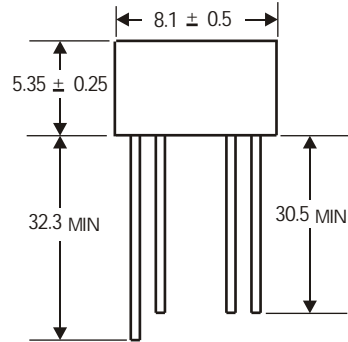


Features

- This series is UL listed under the Recognized Component Index, file number E142814
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Ideal for printed circuit board mounting
- High surge current capability
- High temperature soldering guaranteed 265 °C/10 seconds at 5 lbs (2.3kg) tension

Mechanical Data

Case: Reliable low cost construction utilizing molded plastic technique
 Terminals: Plated leads solderable per MIL-STD-202, Method 208
 Mounting Position: Any
 Weight: 0.05 ounce, 1.3 grams (approx)



Dimensions in millimeters(1mm =0.0394")

Maximum Ratings & Thermal Characteristics

Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz.
 For Capacitive load derate current by 20%.

| Parameter | Symbol | 2W005 | 2W01 | 2W02 | 2W04 | 2W06 | 2W08 | 2W10 | unit |
|---|------------------|--------------|------|------|------|------|------|------|--------------------|
| Maximum repetitive peak reverse voltage | VRRM | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS bridge input voltage | VRMS | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC blocking voltage | VDC | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum average forward rectified output current at TA=25°C | IF(AV) | 2.0 | | | | | | | A |
| Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method) | IFSM | 60 | | | | | | | A |
| Rating for fusing (t<8.3ms) | I ² t | 15 | | | | | | | A ² sec |
| Typical thermal resistance per element (1) | ReJA | 50.0 | | | | | | | °C / W |
| Typical junction capacitance per element (2) | Cj | 30 | | | | | | | pF |
| Operating junction and storage temperature range | TJ, TSTG | -55 to + 150 | | | | | | | °C |

Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.
 For Capacitive load derate by 20 %.

| Parameter | Symbol | 2W005 | 2W01 | 2W02 | 2W04 | 2W06 | 2W08 | 2W10 | Unit |
|--|--------|------------|------|------|------|------|------|------|------|
| Maximum instantaneous forward voltage drop per leg at 2.0A | VF | 1.1 | | | | | | | V |
| Maximum DC reverse current at rated TA =25°C DC blocking voltage per element TA =100°C | IR | 10 1000 | | | | | | | µA |

Notes: (1)Thermal resistance from Junction to Ambient on P.C.board mounting.
 (2)Measured at 2.0MHz and applied reverse voltage of 4.0 volts.



Rating and Characteristic Curves (TA = 25°C Unless otherwise noted)

Fig. 1 Derating Curve for Output Rectified Current

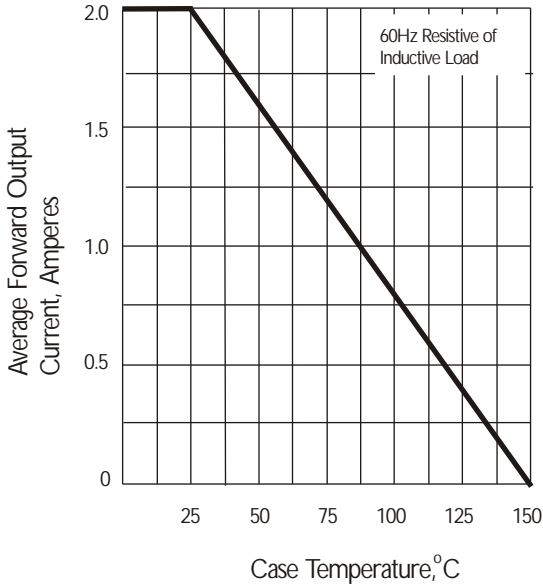


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

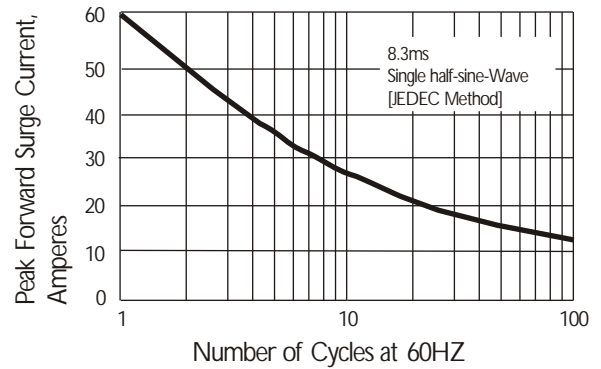


Fig. 3 Typical Instantaneous Forward Characteristics

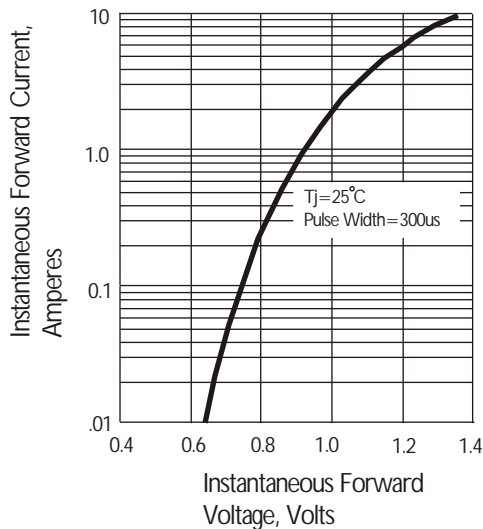


Fig. 4 Typical Reverse Characteristics

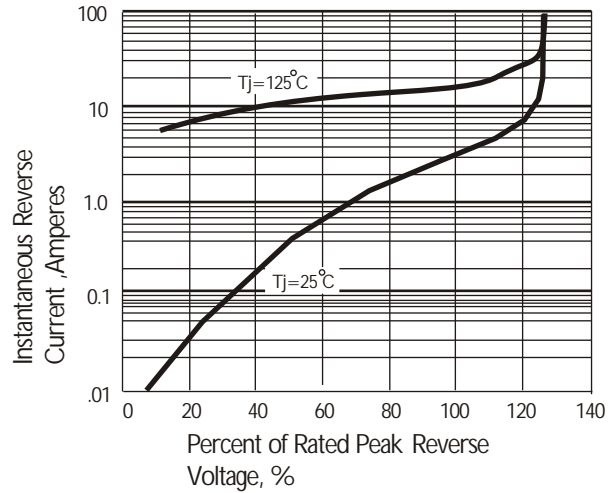


Fig. 5 Typical Junction Capacitance

