

**SINGLE-PHASE SILICON BRIDGE RECTIFIER**

**VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Ampere**

**FEATURES**

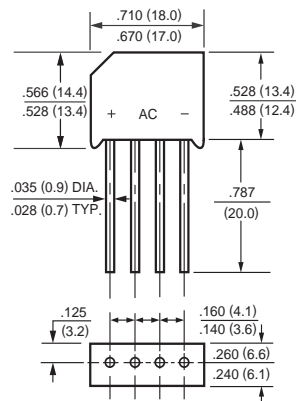
- \* Ideal for printed circuit board
- \* Surge overload rating: 50 amperes peak
- \* Mounting position: Any
- \* Weight: 2.74 grams

**MECHANICAL DATA**

- \* UL listed the recognized component directory, file #E94233
- \* Epoxy: Device has UL flammability classification 94V-0



**RS-2L**



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings 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%.

**MAXIMUM RATINGS** (At TA = 25°C unless otherwise noted)

| RATINGS   | SYMBOL | RS201L       | RS202L | RS203L | RS204L | RS205L | RS206L | RS207L | UNITS |
|---|--------|--------------|--------|--------|--------|--------|--------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage  | VRRM   | 50           | 100    | 200    | 400    | 600    | 800    | 1000   | Volts |
| Maximum RMS Bridge Input Voltage  | VRMS   | 35           | 70     | 140    | 280    | 420    | 560    | 700    | Volts |
| Maximum DC Blocking Voltage   | VDC    | 50           | 100    | 200    | 400    | 600    | 800    | 1000   | Volts |
| Maximum Average Forward Output Current TA = 50°C  | Io     | 2.0          |        |        |        |        |        |        | Amps  |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | IFSM   | 60           |        |        |        |        |        |        | Amps  |
| Operating Temperature Range   | TJ     | -55 to + 125 |        |        |        |        |        |        | °C    |
| Storage Temperature Range   | TSTG   | -55 to + 150 |        |        |        |        |        |        | °C    |
| Typical Junction Capacitance (Note)   | CJ     | 15           |        |        |        |        |        |        | pF    |

**ELECTRICAL CHARACTERISTICS** (At TA = 25°C unless otherwise noted)

| CHARACTERISTICS  | SYMBOL | RS201L | RS202L | RS203L | RS204L | RS205L | RS206L | RS207L | UNITS |
|--|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Maximum Forward Voltage Drop per Bridge Element at 2.0A DC | VF     | 1.1    |        |        |        |        |        |        | Volts |
| Maximum Reverse Current at Rated                           | IR     | 10     |        |        |        |        |        |        | uAmps |
| Dc Blocking Voltage per element                            |        |        |        |        |        |        |        |        | mAmps |
|  |        | 0.5    |        |        |        |        |        |        |       |

NOTES : Measured at 1 MHz and applied reverse voltage of 4.0 volts

# RATING AND CHARACTERISTIC CURVES ( RS201L THRU RS207L )

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

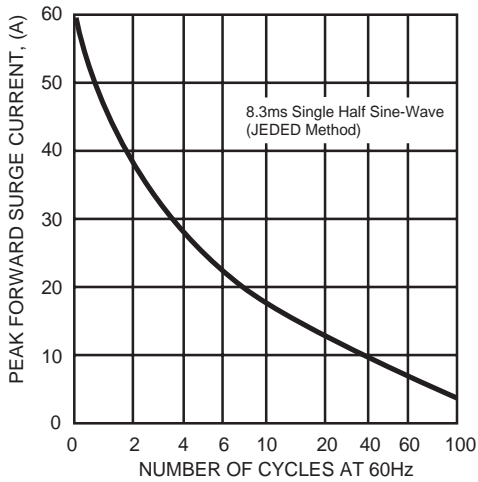


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

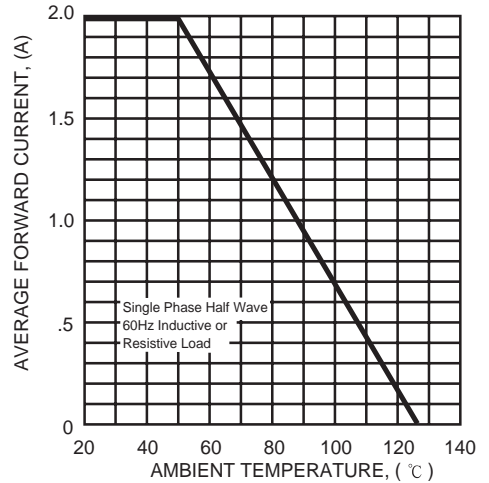


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

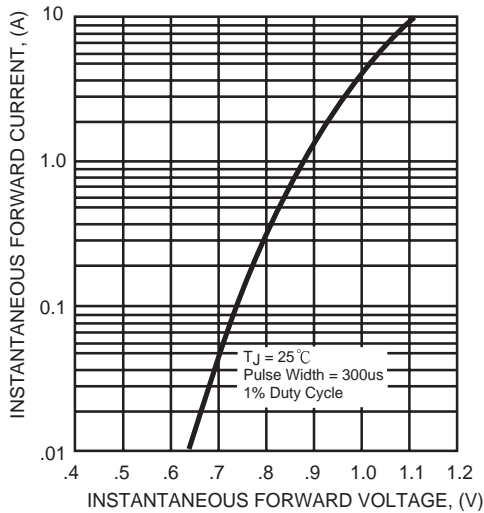


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

