

**SINGLE-PHASE GLASS PASSIVATED  
SILICON BRIDGE RECTIFIER**  
**VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Amperes**

**FEATURES**

- \* Ideal for printed circuit board
- \* Surge overload rating: 60 amperes peak

**MECHANICAL DATA**

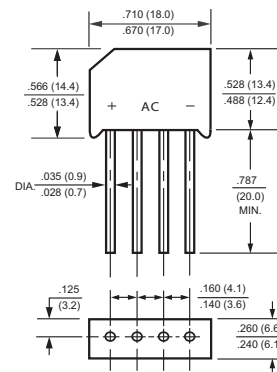
- \* Epoxy: Device has UL flammability classification 94V-O
- \* UL listed the recognized component directory, file #94233
- \* Mounting position: Any

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25 °C ambient temperature unless otherwise specified.  
resistive or inductive load.



**RS-2L**



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS (@ T<sub>A</sub>=25 °C unless otherwise noted)**

| RATINGS                                                                                           | SYMBOL                            | RS201L       | RS202L | RS203L | RS204L | RS205L | RS206L | RS207L | UNITS               |
|---------------------------------------------------------------------------------------------------|-----------------------------------|--------------|--------|--------|--------|--------|--------|--------|---------------------|
| Maximum Recurrent Peak Reverse Voltage                                                            | V <sub>RRM</sub>                  | 50           | 100    | 200    | 400    | 600    | 800    | 1000   | Volts               |
| Maximum RMS Voltage                                                                               | V <sub>RMS</sub>                  | 35           | 70     | 140    | 280    | 420    | 560    | 700    | Volts               |
| Maximum DC Blocking Voltage                                                                       | V <sub>DC</sub>                   | 50           | 100    | 200    | 400    | 600    | 800    | 1000   | Volts               |
| Maximum Average Forward Rectified Current at T <sub>A</sub> = 50°C                                | I <sub>O</sub>                    | 2.0          |        |        |        |        |        |        | Amps                |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | I <sub>FSM</sub>                  | 60           |        |        |        |        |        |        | Amps                |
| Current Squared Time                                                                              | I <sup>2</sup> t                  | 14.9         |        |        |        |        |        |        | A <sup>2</sup> /Sec |
| Typical Thermal Resistance (Note 1)                                                               | R <sub>θJC</sub>                  | 15           |        |        |        |        |        |        | °C/W                |
|                                                                                                   | R <sub>θJA</sub>                  | 40           |        |        |        |        |        |        |                     |
| Typical Junction Capacitance (Note 3)                                                             | C <sub>J</sub>                    | 15           |        |        |        |        |        |        | pF                  |
| Operating and Storage Temperature Range                                                           | T <sub>J</sub> , T <sub>STG</sub> | -55 to + 150 |        |        |        |        |        |        | °C                  |

**ELECTRICAL CHARACTERISTICS (@ T<sub>A</sub>=25 °C unless otherwise noted)**

| CHARACTERISTICS                                         | SYMBOL                   | RS201L | RS202L | RS203L | RS204L | RS205L | RS206L | RS207L | UNITS |
|---------------------------------------------------------|--------------------------|--------|--------|--------|--------|--------|--------|--------|-------|
| Maximum Instantaneous Forward Voltage at 2.0A DC        | V <sub>F</sub>           | 1.1    |        |        |        |        |        |        | Volts |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | @ T <sub>A</sub> = 25°C  | 2.0    |        |        |        |        |        |        | uAmps |
|                                                         | @ T <sub>A</sub> = 150°C | 1.0    |        |        |        |        |        |        | mAmps |

NOTES : 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted.  
2. " ROHS compliant"  
3. Measured at 1MHz and applied reverse voltage of 4.0 volts.

2019-02  
REV:A

## RATING AND CHARACTERISTICS CURVES ( RS201L THRU RS207L )

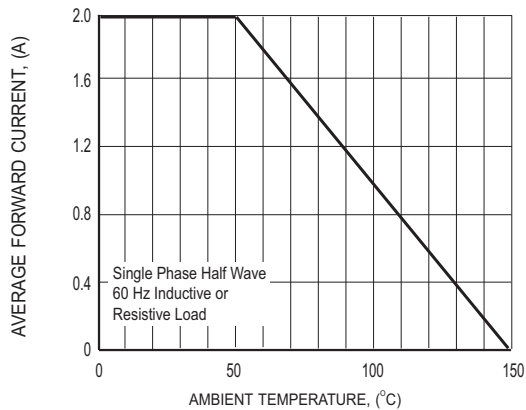


FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

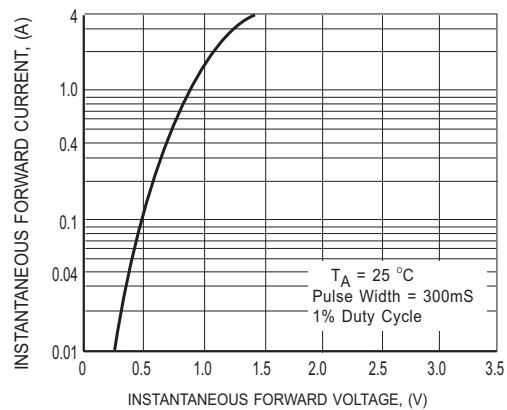


FIG.2 MAXIMUM INSTANTANEOUS FORWARD CHARACTERISTICS

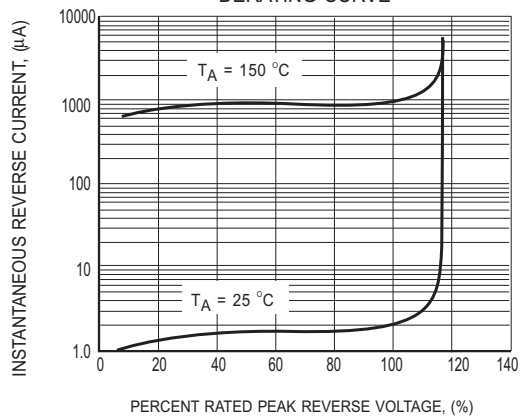


FIG.3 MAXIMUM REVERSE CHARACTERISTICS

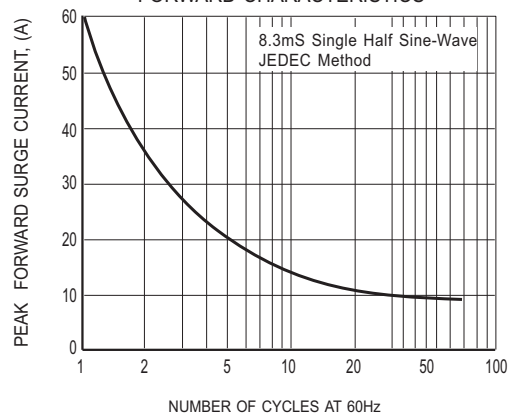
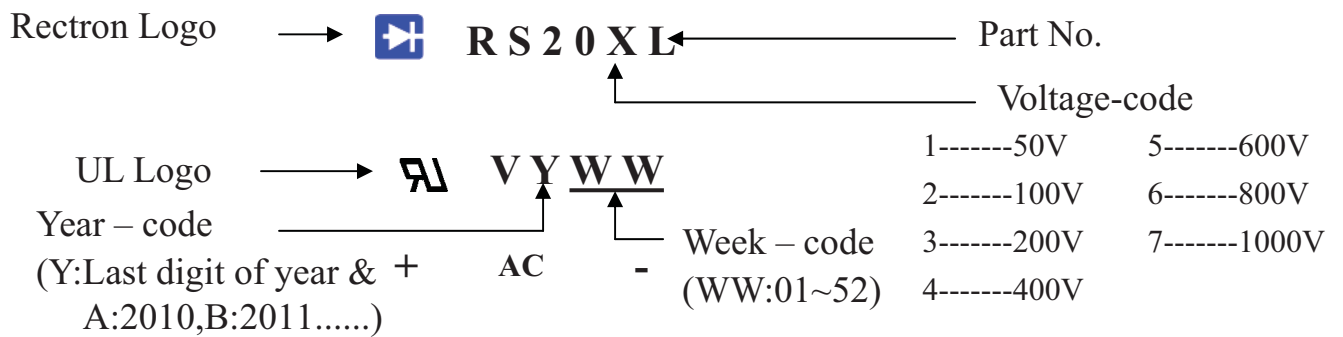


FIG.4 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

## Marking Description



## PACKAGING OF DIODE AND BRIDGE RECTIFIERS

### TUBE PACK

| PACKAGE | PACKING CODE | EA PER BOX | INNER BOX SIZE<br>(mm) | CARTON SIZE<br>(mm) | EA PER CARTON | WEIGHT(Kg) |
|---------|--------------|------------|------------------------|---------------------|---------------|------------|
| RS-2L   | -C           | 900        | 490*135*110            | 510*293*131         | 1,800         | 10.12      |

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