

**SINGLE-PHASE GLASS PASSIVATED
SILICON BRIDGE RECTIFIER**

VOLTAGE 50 to 1000 Volts CURRENT 2.0 Amperes

FEATURES

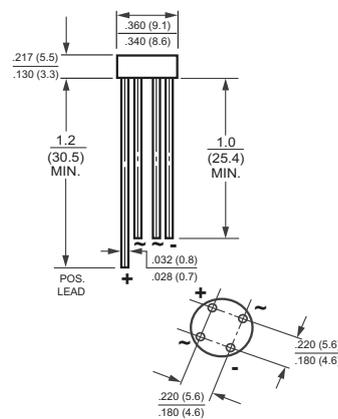
- * Reverse voltage to 600v
- * Surge overload ratings to 50 amperes peak
- * Good for printed circuit board assembly
- * Mounting position: Any
- * Silver-plated copper leads

MECHANICAL DATA

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



RC-2



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 | RC201 | RC202 | RC203 | RC204 | RC205 | RC206 | RC207 | 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 at TA = 25°C | Io | 2.0 | | | | | | | Amps |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | IFSM | 50 | | | | | | | Amps |
| Typical Current Squared Time | I ² t | 10.3 | | | | | | | A ² /Sec |
| Operating Temperature Range | TJ | -55 to + 150 | | | | | | | °C |
| Storage Temperature Range | TSTG | -55 to + 150 | | | | | | | °C |

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

| CHARACTERISTICS | SYMBOL | RC201 | RC202 | RC203 | RC204 | RC205 | RC206 | RC207 | UNITS |
|------------------------------------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Forward Voltage Drop per Bridge Element at 2.0A DC | VF | 1.05 | | | | | | | Volts |
| Maximum Reverse Current at Rated DC Blocking Voltage per element | IR | 1.0 | | | | | | | uAmps |
| | | 1.0 | | | | | | | mAmps |

- NOTES : 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted.
2. "ROHS compliant"
3. Equivalent to Vishay's GBU6 Series.

RATING AND CHARACTERISTIC CURVES(RC201 THRU RC207)

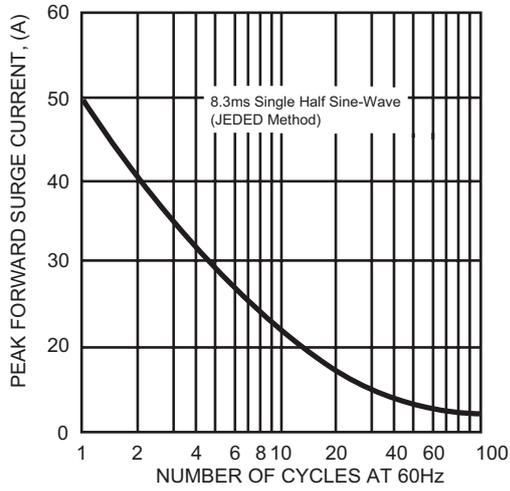


FIG. 1 - MAXIMUM FORWARD SURGE CURRENT

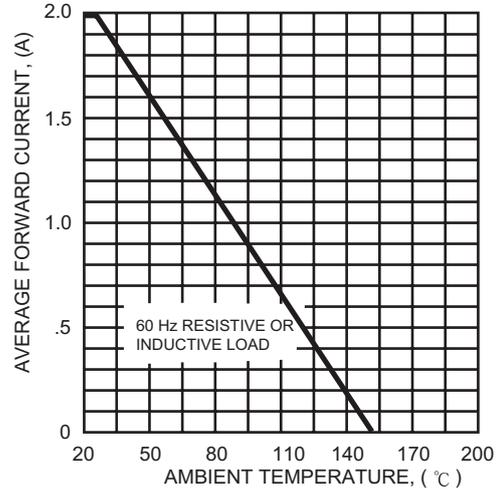


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

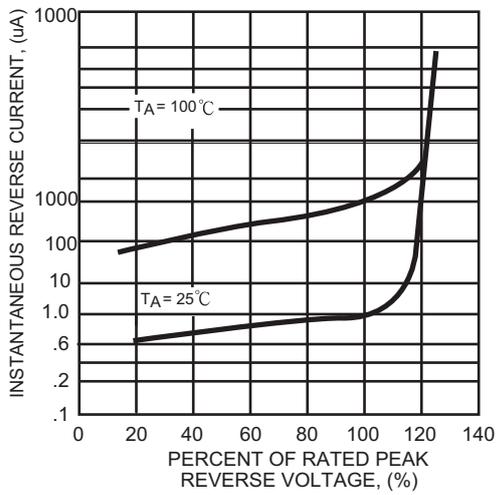


FIG. 3 - MAXIMUM REVERSE CHARACTERISTICS

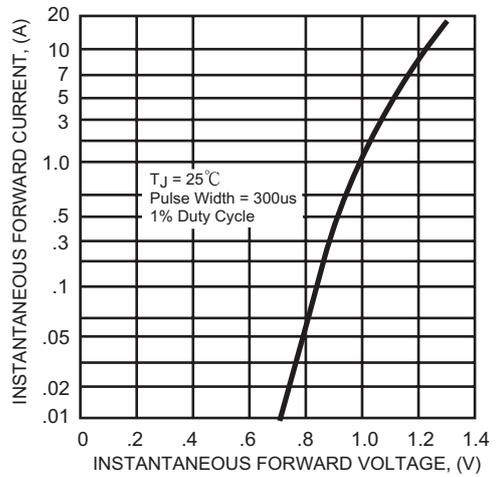
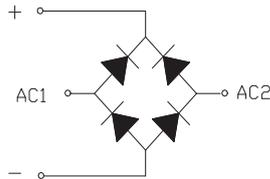


FIG. 4 - MAXIMUM INSTANTANEOUS FORWARD CHARACTERISTICS

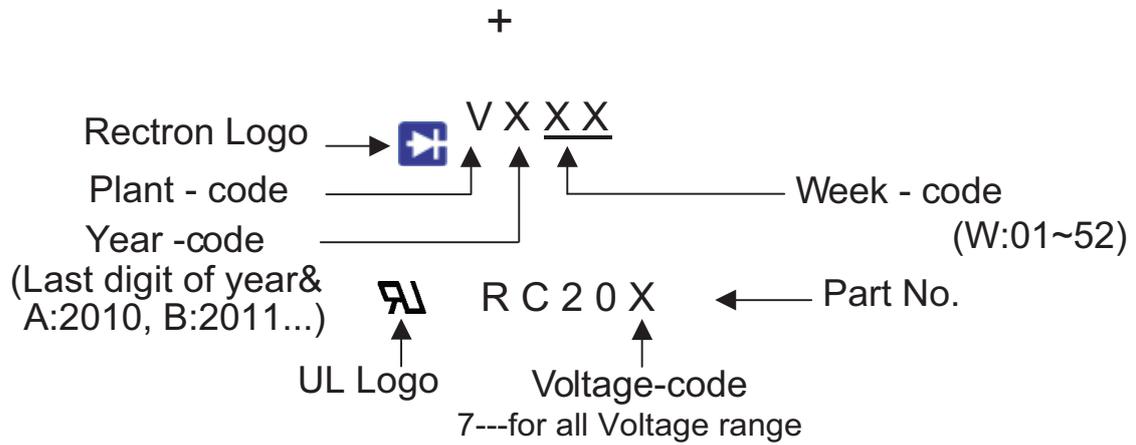


RECTRON

1. Internal Circuit



2. Marking on the body



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

| PACKAGE | PACKING CODE | EA PER BOX | INNER BOX SIZE (mm) | CARTON SIZE (mm) | EA PER CARTON | GROSS WEIGHT(Kg) |
|---------|--------------|------------|------------------------|---------------------|---------------|---------------------|
| RC-2 | -B | 1,000 | 165*252*59 | 347*320*271 | 10,000 | 11.6 |

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