

SINGLE-PHASE GLASS PASSIVATED
SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 20 Amperes

FEATURES

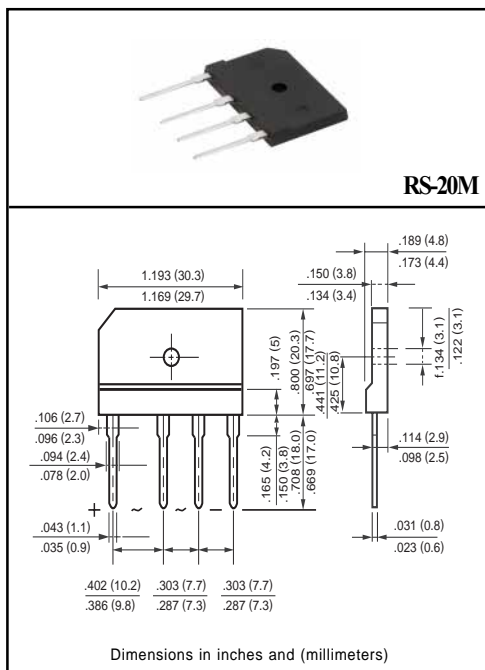
- * Low leakage
- * Low forward voltage
- * Mounting position: Any
- * Surge overload rating: 300 amperes peak
- * Ideal for printed circuit boards
- * High forward surge current capability

MECHANICAL DATA

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

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%.



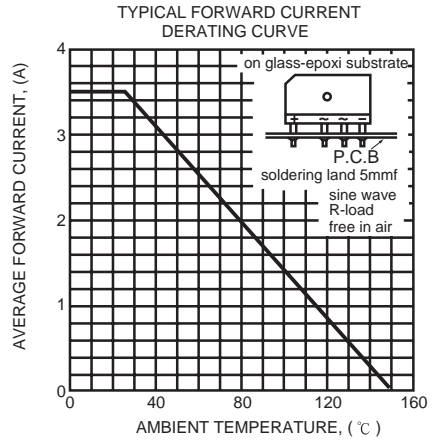
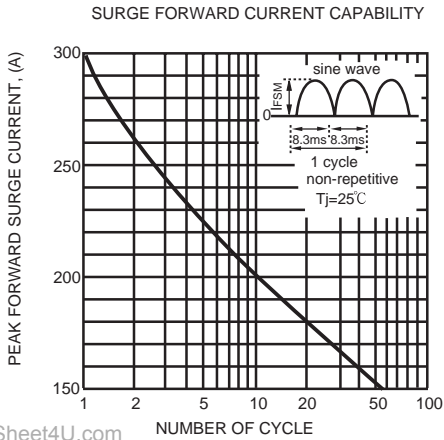
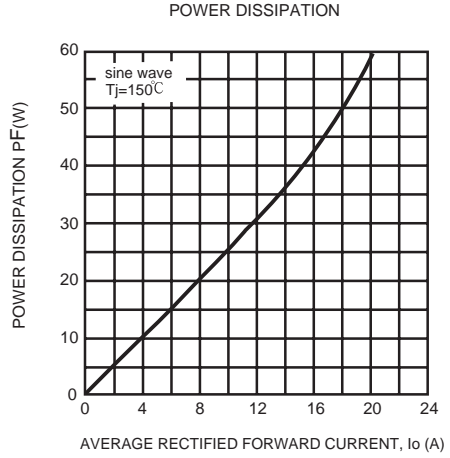
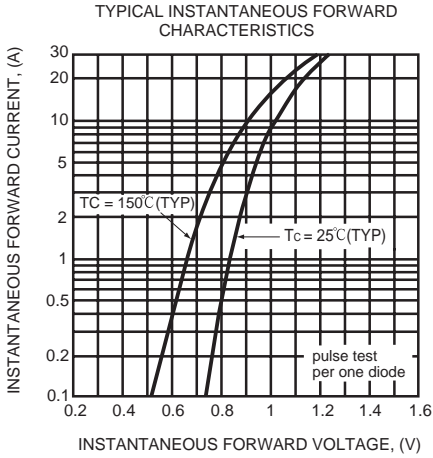
MAXIMUM RATINGS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

| RATINGS | SYMBOL | RS2001M | RS2002M | RS2003M | RS2004M | RS2005M | RS2006M | RS2007M | UNITS |
|---|----------------|--------------|---------|---------|---------|---------|---------|---------|------------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum RMS Bridge Input Voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | Volts |
| Maximum DC Blocking Voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum Average Forward Rectified Output Current at $T_c = 100^\circ\text{C}$ with heatsink | I_o | 20 | | | | | | | Amps |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load | I_{FSM} | 300 | | | | | | | Amps |
| Operating and Storage Temperature Range | T_J, T_{STG} | -55 to + 150 | | | | | | | $^\circ\text{C}$ |

ELECTRICAL CHARACTERISTICS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

| CHARACTERISTICS | SYMBOL | RS2001M | RS2002M | RS2003M | RS2004M | RS2005M | RS2006M | RS2007M | UNITS |
|--|--------|---------|---------|---------|---------|---------|---------|---------|------------------|
| Maximum Forward Voltage Drop per element at 10A DC | V_F | 1.1 | | | | | | | Volts |
| Maximum Reverse Current at Rated | I_R | 5.0 | | | | | | | μAmps |
| DC Blocking Voltage per element | | 0.2 | | | | | | | mAmps |

RATING AND CHARACTERISTIC CURVES (RS2001M THRU RS2007M)



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