

SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 15 Amperes

FEATURES

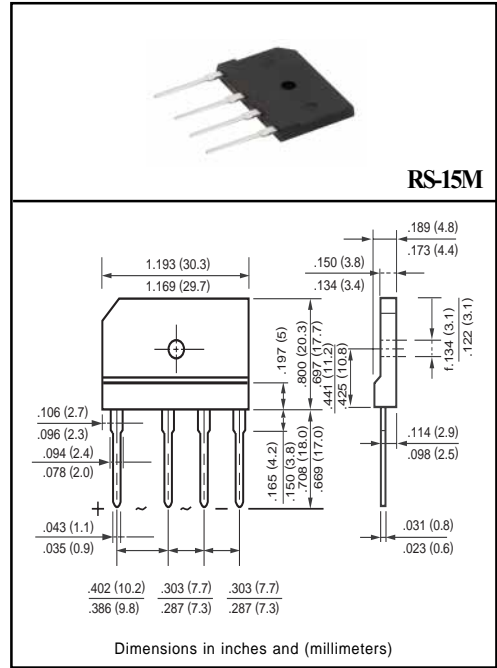
- * Low leakage
- * Low forward voltage
- * Mounting position: Any
- * Surge overload rating: 250 amperes peak
- * Ideal for printed circuit boards
- * High forward surge current capability

MECHANICAL DATA

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

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 | RS1501M | RS1502M | RS1503M | RS1504M | RS1505M | RS1506M | RS1507M | 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 Rectified Output Current at Tc = 100°C with heatsink | Io | 15 | | | | | | | Amps |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load | IFSM | 250 | | | | | | | Amps |
| Operating and Storage Temperature Range | TJ, TSTG | -55 to + 150 | | | | | | | °C |

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

| CHARACTERISTICS | SYMBOL | RS1501M | RS1502M | RS1503M | RS1504M | RS1505M | RS1506M | RS1507M | UNITS |
|---|--------|---------|---------|---------|---------|---------|---------|---------|-------|
| Maximum Forward Voltage Drop per element at 7.5A DC | VF | 1.1 | | | | | | | Volts |
| Maximum Reverse Current at Rated | IR | 10 | | | | | | | uAmps |
| DC Blocking Voltage per element | | 0.2 | | | | | | | mAmps |

RATING AND CHARACTERISTIC CURVES (RS1501M THRU RS1507M)

