

SINGLE-PHASE GLASS PASSIVATED
SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 4.0 Ampere

FEATURES

- * Ideal for printed circuit board
- * Surge overload rating: 200 amperes peak
- * Mounting position: Any

MECHANICAL DATA

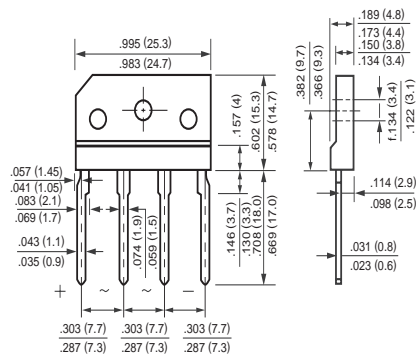
- * UL listed the recognized component directory, file #E94233
- * Epoxy: Device has UL flammability classification 94V-O

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%.



RS-4M



Dimensions in inches and (millimeters)

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

| RATINGS | SYMBOL | RS401M | RS402M | RS403M | RS404M | RS405M | RS406M | RS407M | 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 TC = 100°C | IO | 4.0 | | | | | | | Amps |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | IFSM | 150 | | | | | | | Amps |
| Operating Temperature Range | TJ | -55 to + 150 | | | | | | | °C |
| Storage Temperature Range | TSTG | -55 to + 150 | | | | | | | °C |
| Typical Junction Capacitance (Note) | CJ | 40 | | | | | | | pF |

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

| CHARACTERISTICS | SYMBOL | RS401M | RS402M | RS403M | RS404M | RS405M | RS406M | RS407M | UNITS |
|--|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Maximum Forward Voltage Drop per Bridgeat Element at 4.0A DC | VF | 1.0 | | | | | | | Volts |
| Maximum Reverse Current at Rated | IR | 10 | | | | | | | uAmps |
| Dc Blocking Voltage per element | | 0.2 | | | | | | | mAmps |

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

2001-5

RATING AND CHARACTERISTIC CURVES (RS401M THRU RS407M)

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

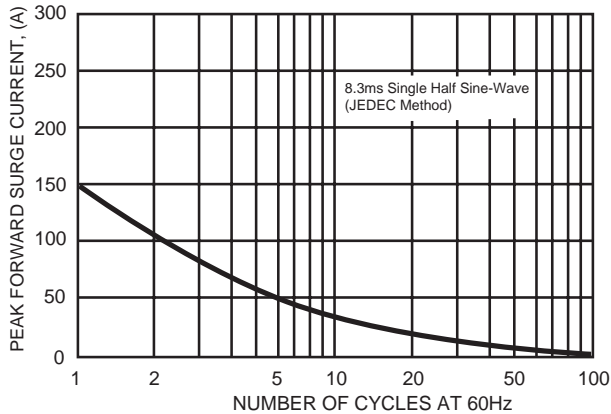


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

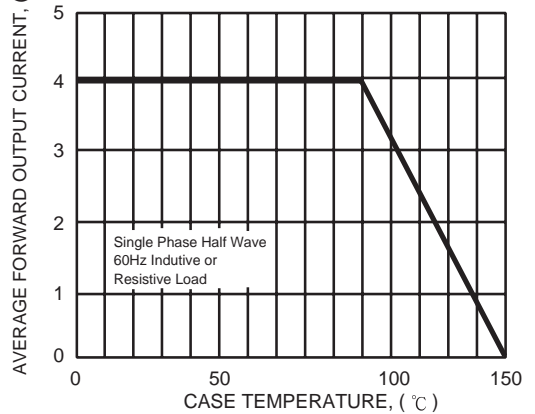


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

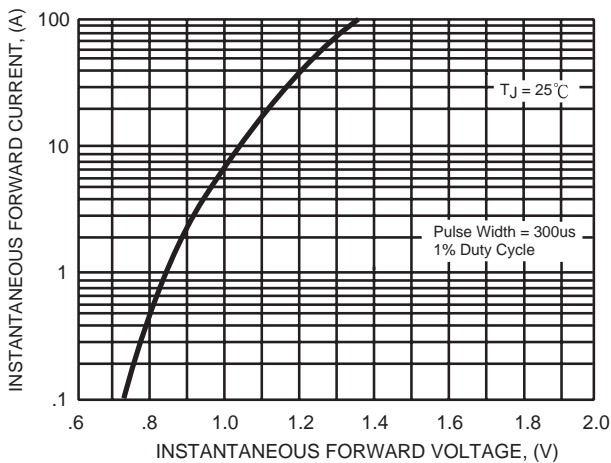


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

