

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

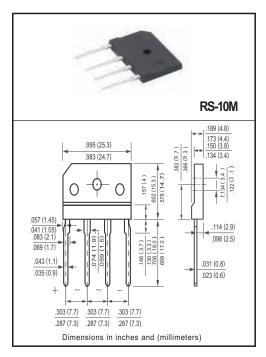
VOLTAGE RANGE 50 to 1000 Volts CURRENT 10 Amperes

FEATURES

- * Low leakage
- * Low forward voltage
- * Mounting position : Any
- Surge overload rating: 200 Amperes peak
 Ideal for printed circuit boards
- * MSL: Level 1

MECHANICAL DATA

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



RS1001M THRU

RS1007M

resistive or inductive load.

Ratings at 25 °C ambient temperature unless otherwise specified.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

MAXIMUM CHARACTERISTICS (@ TA = 25°C unless otherwise noted)

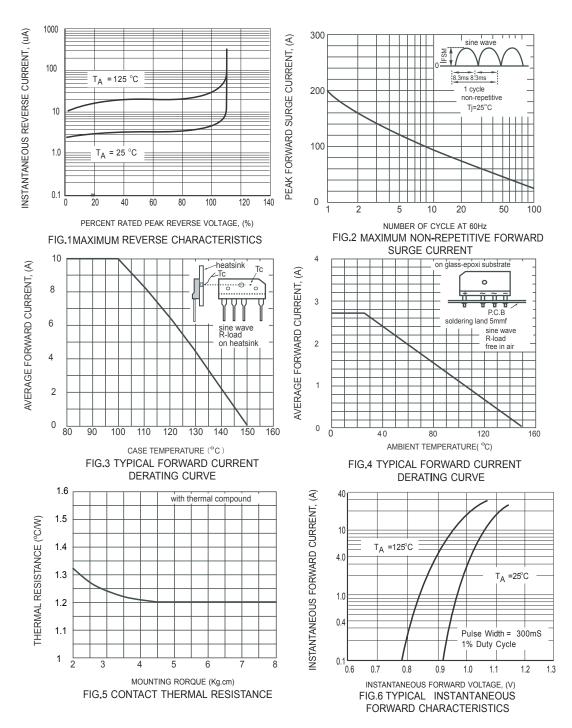
| CHARACTERISTICS | SYMBOL | RS1001M | RS1002M | RS1003M | RS1004M | RS1005M | RS1006M | RS1007M | UNITS |
|---|------------------|--------------|---------|---------|---------|---------|---------|------------------|-------|
| Maximum Recurrent Peak Reverse Voltage | Vrrm | 50 | 100 | 200 | 400 | 600 | 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 degree with heatsink | lo | 10 | | | | | | | Amps |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load | IFSM | 200 | | | | | | | Amps |
| Typical Current Square Time | I ² T | 166 | | | | | | A ² S | |
| Insulation voltage | Viso | 3000 | | | | | | | Volts |
| Typical Thermal Resistance from junction to ambient | R0ja | 22 | | | | | | °C/W | |
| Typical Thermal Resistance from junction to case | R0jc | 1.0 | | | | | 0/11 | | |
| Operating and Storage Temperature Range | ТЈ,ТЅТС | -55 to + 150 | | | | | | °C | |

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

| CHARACTERISTICS | | SYMBOL | RS1001M | RS1002M | RS1003M | RS1004M | RS1005M | RS1006M | RS1007M | UNITS |
|---|------------|--------|---------|---------|---------|---------|---------|---------|---------|-------|
| Maximum Forward Voltage Drop per element at 5.0A DC | @TA=25 °C | VF | 1.1 | | | | | | | Volts |
| | @TA=125 °C | | 0.98 | | | | | | | |
| Maximum Reverse Current at Rated DC Blocking Voltage per element | @TA=25 °C | IR | 5.0 | | | | | | | μAmps |
| | @TA=125 °C | | 30 | | | | | | | μAmps |

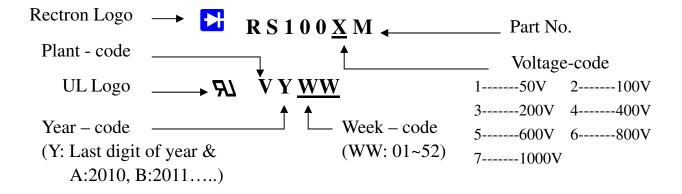
Note: " ROHS compliant".

RATING AND CHARACTERISTICS CURVES (RS1001M THRU RS1007M)





Marking Description



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

TUBE PACK

| PACKAGE | PACKING CODE | EA PER BOX | INNER BOX SIZE (mm) | CARTON SIZE (mm) | EA PER CARTON | WEIGHT(Kg) | |
|------------|--------------|------------|------------------------|---------------------|---------------|------------|--|
| RS-4M/-10M | -C | 900 | 540*118*118 | 560*259*144 | 1,800 | 12.82 | |

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