

## RS801M THRU RS807M

# SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 8.0 Amperes

## **FEATURES**

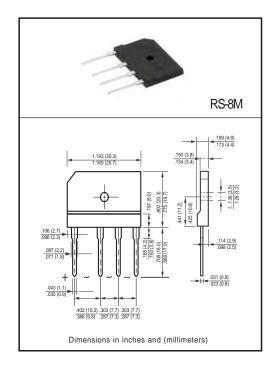
- \* Low leakage
- \* Low forward voltage
- \* Surge overload rating: 200 amperes peak
- \* Mounting position: Any
- \* Ideal for printed circuit boards
- \* High forward surge current capability

## MECHANICAL DATA

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

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. resistive or inductive load.



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

| RATINGS   | SYMBOL                            | RS801M       | RS802M | RS803M | RS804M | RS805M | RS806M | RS807M              | UNITS |
|---|-----------------------------------|--------------|--------|--------|--------|--------|--------|---------------------|-------|
| Maximum Recurrent Peak Reverse Voltage  | V <sub>RRM</sub>                  | 50           | 100    | 200    | 400    | 600    | 800    | 1000                | Volts |
| Maximum RMS Voltage   | V <sub>RMS</sub>                  | 35           | 70     | 140    | 280    | 420    | 560    | 700                 | Volts |
| Maximum DC Blocking Voltage   | V <sub>DC</sub>                   | 50           | 100    | 200    | 400    | 600    | 800    | 1000                | Volts |
| Maximum Average Forward Rectified Current at T <sub>C</sub> = 75 °C (with heat sink)              | lo                                | 8.0          |        |        |        |        |        |                     | Amps  |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) |                                   |              |        | Amps   |        |        |        |                     |       |
| Current Squarad Time  | I <sup>2</sup> T                  | 165.9        |        |        |        |        |        | A <sup>2</sup> /Sec |       |
| RMS isolation voltage from case to lead   | Viso                              | 3000         |        |        |        |        |        | Vac                 |       |
| Typical Thermal Resistance (Note 1)   | R <sub>O</sub> JC                 | 3.4          |        |        |        |        |        |                     | °C/W  |
| Typical Thermal Nesistance (Note 1)   | $R_{\Theta JA}$                   | 26           |        |        |        |        |        |                     | 0/W   |
| Operating and Storage Temperature Range   | T <sub>J</sub> , T <sub>STG</sub> | -55 to + 150 |        |        |        | °C     |        |                     |       |

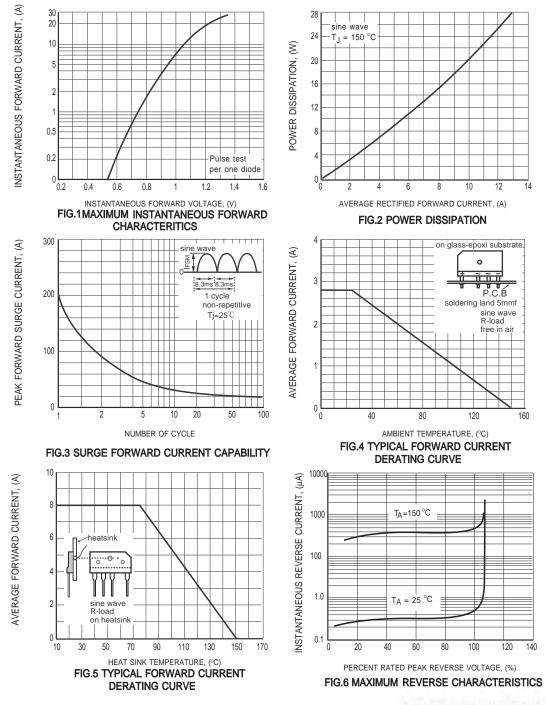
## ELECTRICAL CHARACTERISTICS (@TA=25 °C unless otherwise noted)

| CHARACTERISTI                                     | SYMBOL                  | RS801M | RS802M | RS803M | RS804M | RS805M | RS806M | RS807M | UNITS |
|---|-------------------------|--------|--------|--------|--------|--------|--------|--------|-------|
| Maximum Instantaneous Forward Vol                 | V <sub>F</sub>          | 1.05   |        |        |        |        |        |        | Volts |
| Maximum DC Reverse Current @T <sub>A</sub> = 25°C |                         | la.    | 0.5    |        |        |        |        |        |       |
| at Rated DC Blocking Voltage                      | @T <sub>A</sub> =150 °C | чR     | 500    |        |        |        |        |        | uAmps |

NOTES: 1.Thermal Resistance: Heat-sink case mounted or if PCB mounted. 2."ROHScompliant".

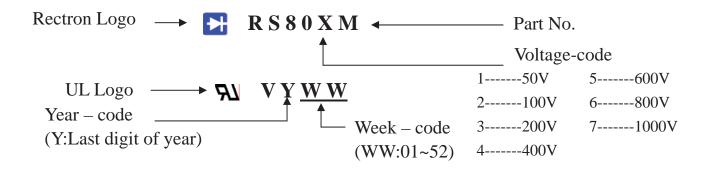
2019-06 REV:C

## RATING AND CHARACTERISTICS CURVES (RS801M THRU RS807M)





# **Marking Description**



# PACKAGING OF DIODE AND BRIDGE RECTIFIERS

## BULK PACK

| PACKAGE | PACKING CODE | EA PER BOX | INNER BOX SIZE CARTON SIZE (mm) (mm) |             | EA PER CARTON | GROSS<br>WEIGHT(Kg) |  |
|---------|--------------|------------|--------------------------------------|-------------|---------------|---------------------|--|
| RS-8M   | -В           | 300        | 230*190*46                           | 410*243*157 | 1,800         | 13.37               |  |

eg(TYPE):RS807M-B

## TUBE PACK

| PACKAGE | PACKING CODE EA PER BOX |     | INNER BOX SIZE CARTON SIZE (mm) (mm) |             | EA PER CARTON | WEIGHT(Kg) |  |
|---------|-------------------------|-----|--------------------------------------|-------------|---------------|------------|--|
| RS-8M   | -C                      | 600 | 490*135*110                          | 510*293*131 | 1,200         | 13.12      |  |

eg(TYPE):RS807M-C



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