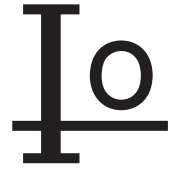
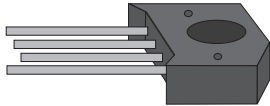


# RS801 THRU RS807



SINGLE PHASE 8.0 AMP BRIDGE RECTIFIERS



## FEATURES

- \* Ideal for printed circuit board
- \* Low forward voltage
- \* Low leakage current
- \* Polarity: marked on body
- \* Mounting position: Any

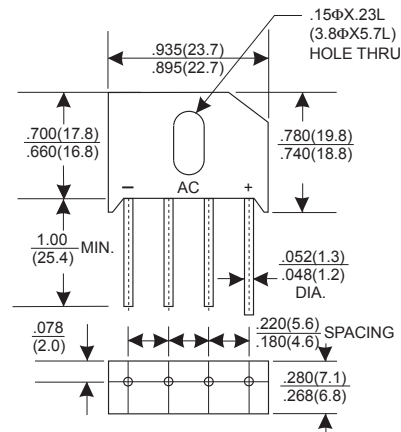
## VOLTAGE RANGE

50 to 1000 Volts

## CURRENT

8.0 Amperes

### RS-8



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.  
Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

| TYPE NUMBER                                                                                           | RS801      | RS802 | RS803 | RS804 | RS805 | RS806 | RS807 | UNITS |
|-------------------------------------------------------------------------------------------------------|------------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Recurrent Peak Reverse Voltage                                                                | 50         | 100   | 200   | 400   | 600   | 800   | 1000  | V     |
| Maximum RMS Voltage                                                                                   | 35         | 70    | 140   | 280   | 420   | 560   | 700   | V     |
| Maximum DC Blocking Voltage                                                                           | 50         | 100   | 200   | 400   | 600   | 800   | 1000  | V     |
| Maximum Average Forward Rectified Current<br>.375"(9.5mm) Lead Length at Tc=50°C                      | 8.0        |       |       |       |       |       |       | A     |
| Peak Forward Surge Current, 8.3 ms single half sine-wave<br>superimposed on rated load (JEDEC method) | 250        |       |       |       |       |       |       | A     |
| Maximum Forward Voltage Drop per Bridge Element at 8.0A D.C.                                          | 1.1        |       |       |       |       |       |       | V     |
| Maximum DC Reverse Current<br>Ta=25°C                                                                 | 10         |       |       |       |       |       |       | μA    |
| at Rated DC Blocking Voltage<br>Ta=100°C                                                              | 200        |       |       |       |       |       |       | μA    |
| Operating Temperature Range, Tj                                                                       | -65 — +125 |       |       |       |       |       |       | °C    |
| Storage Temperature Range, Tstg                                                                       | -65 — +150 |       |       |       |       |       |       | °C    |

## RATING AND CHARACTERISTIC CURVES (RS801 THRU RS807)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

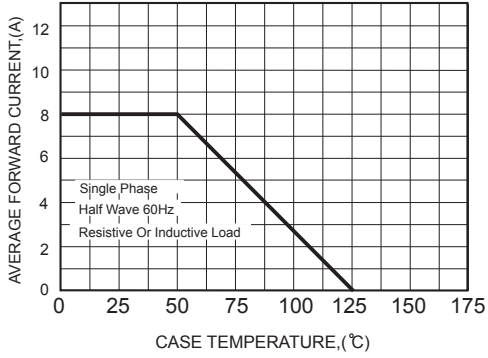


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

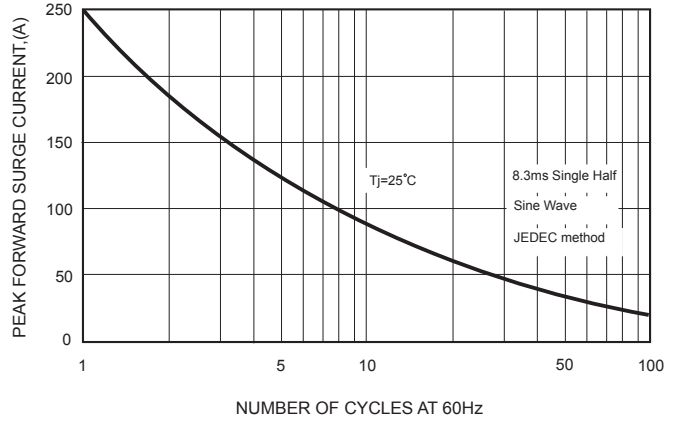


FIG.3-TYPICAL FORWARD CHARACTERISTICS

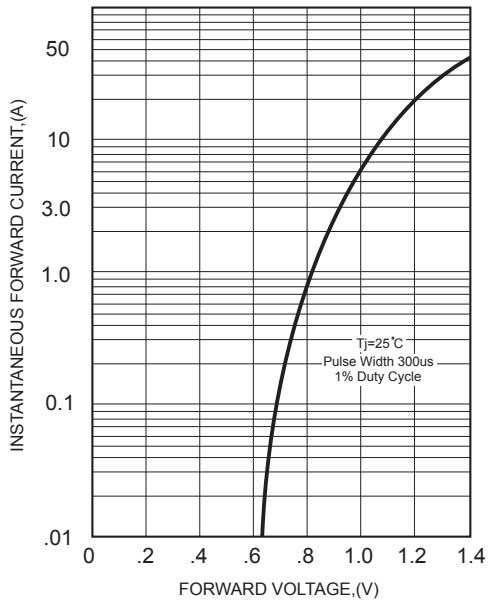


FIG.4-TYPICAL REVERSE CHARACTERISTICS

