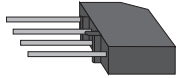


# RS101 THRU RS107

SINGLE PHASE 1.0 AMP BRIDGE RECTIFIERS



## FEATURES

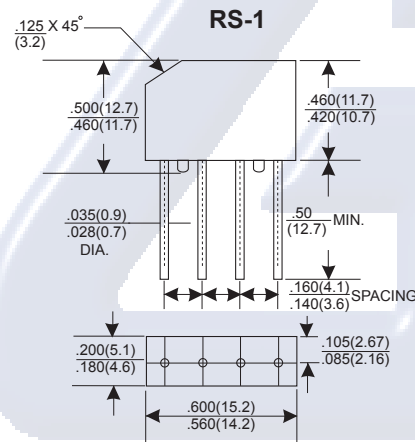
- \* Ideal for printed circuit board
- \* Low forward voltage
- \* Low leakage current
- \* Polarity: marked on body
- \* Mounting position: Any
- \* Weight: 1.52 grams

## VOLTAGE RANGE

50 to 1000 Volts

## CURRENT

1.0 Ampere



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                                                                                        | RS101      | RS102 | RS103 | RS104 | RS105 | RS106 | RS107 | 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                                                          |            |       |       |       |       |       |       |       |
| .375"(9.5mm) Lead Length at Ta=50°C                                                                | 1.0        |       |       |       |       |       |       | A     |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 30         |       |       |       |       |       |       | A     |
| Maximum Forward Voltage Drop per Bridge Element at 1.0A D.C.                                       | 1.0        |       |       |       |       |       |       | V     |
| Maximum DC Reverse Current Ta=25°C                                                                 | 10         |       |       |       |       |       |       | μA    |
| at Rated DC Blocking Voltage Ta=100°C                                                              | 100        |       |       |       |       |       |       | μA    |
| Operating Temperature Range, Tj                                                                    | -65 — +125 |       |       |       |       |       |       | °C    |
| Storage Temperature Range, Tstg                                                                    | -65 — +150 |       |       |       |       |       |       | °C    |

## RATING AND CHARACTERISTIC CURVES (RS101 THRU RS107)

FIG.1-TYPICAL FORWARD CURRENT  
DERATING CURVE

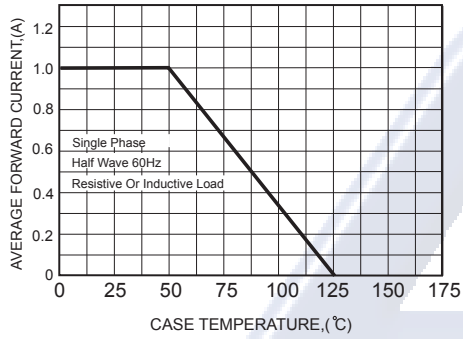


FIG.2-MAXIMUM NON-REPETITIVE FORWARD  
SURGE CURRENT

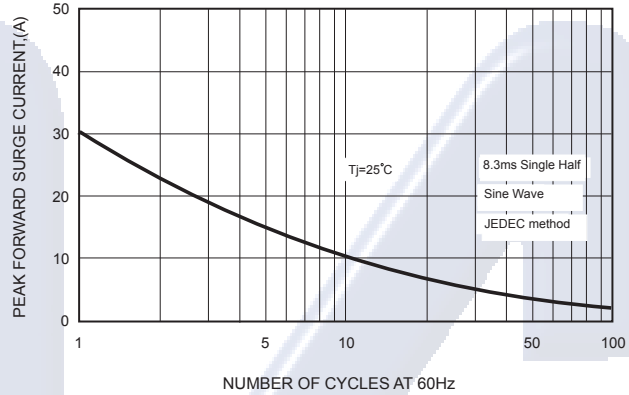


FIG.3-TYPICAL FORWARD  
CHARACTERISTICS

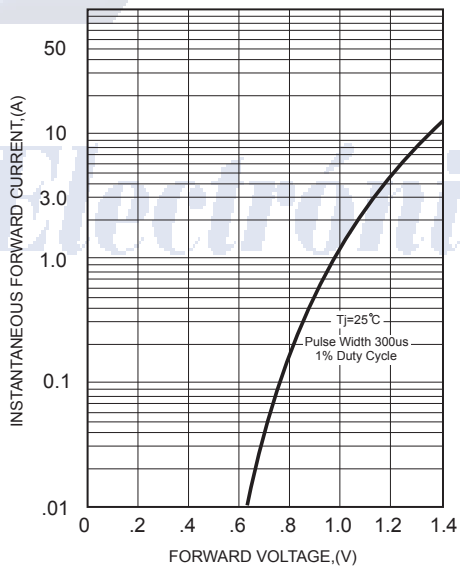


FIG.4-TYPICAL REVERSE  
CHARACTERISTICS

