

# RB151 THRU RB157



## SINGLE PHASE 1.5 AMP BRIDGE RECTIFIERS



### FEATURES

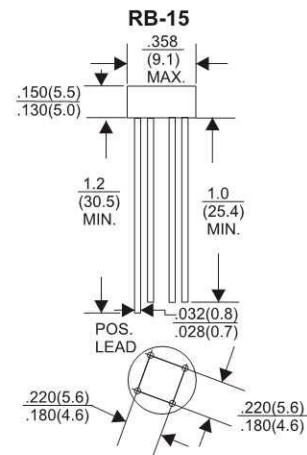
- \* Ideal for printed circuit board
- \* Low forward voltage
- \* Low leakage current
- \* Polarity: marked on body
- \* Mounting position: Any
- \* Weight: 1.04 grams
- \* Both normal and Pb free product are available:
  - \* Normal: 80~95%Sn, 5~20%Pb
  - \* Pb free: 99 Sn above can meet Rohs environment substance directive request

### VOLTAGE RANGE

50 to 1000 Volts

### CURRENT

1.5 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                                                                                           | RB151      | RB152 | RB153 | RB154 | RB155 | RB156 | RB157 | 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 Ta=25°C                      | 1.5        |       |       |       |       |       |       | A     |
| Peak Forward Surge Current, 8.3 ms single half sine-wave<br>superimposed on rated load (JEDEC method) | 50         |       |       |       |       |       |       | A     |
| Maximum Forward Voltage Drop per Bridge Element at 1.0A D.C.                                          | 1.0        |       |       |       |       |       |       | V     |
| Maximum DC Reverse Current Ta=25°C                                                                    | 10         |       |       |       |       |       |       | uA    |
| at Rated DC Blocking Voltage Ta=100°C                                                                 | 500        |       |       |       |       |       |       | uA    |
| Operating Temperature Range, Tj                                                                       | -65 — +125 |       |       |       |       |       |       | °C    |
| Storage Temperature Range, TSTG                                                                       | -65 — +150 |       |       |       |       |       |       | °C    |

RATING AND CHARACTERISTIC CURVES (RB151 THRU RB157)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

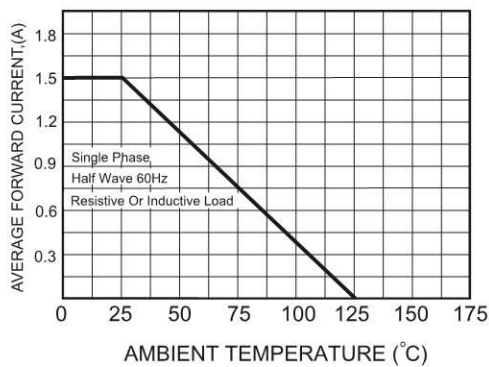


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

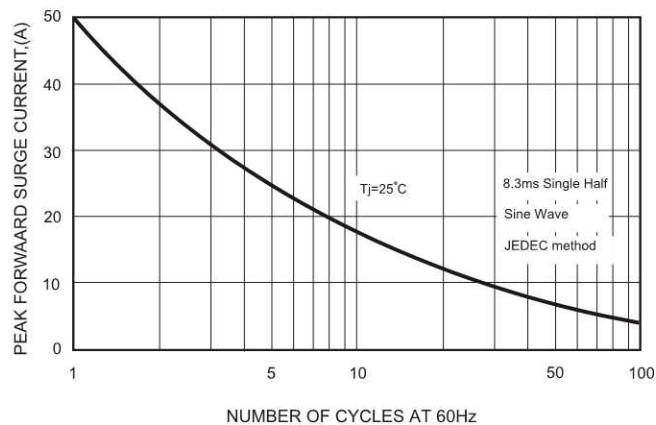


FIG.3-TYPICAL FORWARD CHARACTERISTICS

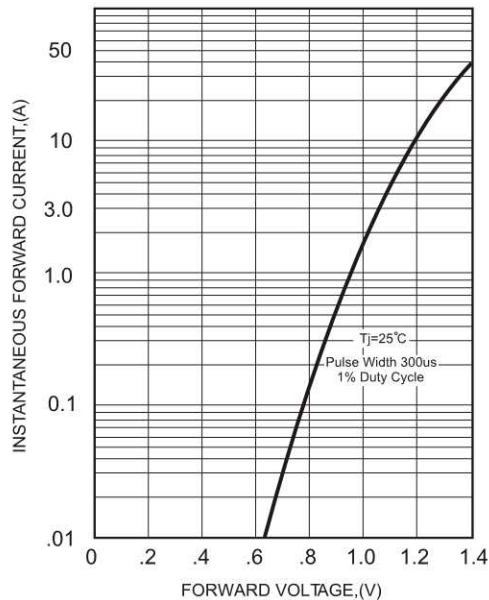


FIG.4-TYPICAL REVERSE CHARACTERISTICS

