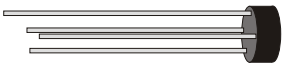
# RB151 THRU RB157

SINGLE PHASE 1.5 AMP BRIDGE RECTIFIERS

FMS



## FEATURES

* Ideal for printed circuit board
* Low forward voltage
* Low leakage current
* Polarity: marked on body
* Mounting position: Any
* Weight: 1.04 grams

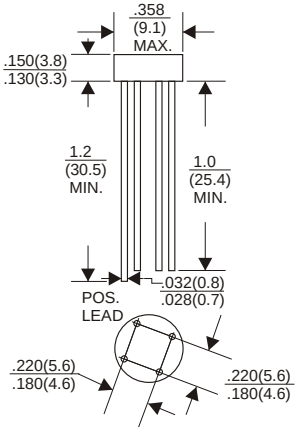
VOLTAGE RANGE

50 to 1000 Volts

CURRENT

1.5 Amperes

**RB-15**




Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25˚C ambient temperature unless otherwies 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 .375"(9.5mm) Lead Length at Ta=25˚C | 1.5 | | | | | | | A |
| Peak Forward Surge Current, 8.3 ms single half sine-wave 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 | | | | | | | mA |
| at Rated DC Blocking Voltage Ta=100˚C | 500 | | | | | | | mA |
| Operating Temperature Range, $T_J$ | -65 — +125 | | | | | | | ˚C |
| Storage Temperature Range, $T_{STG}$ | -65 — +150 | | | | | | | ˚C |

## RATING AND CHARACTERISTIC CURVES (RB151 THRU RB157)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

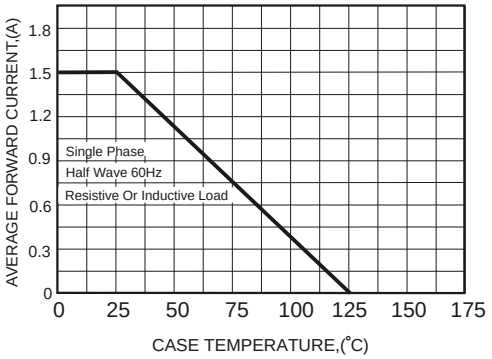



FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

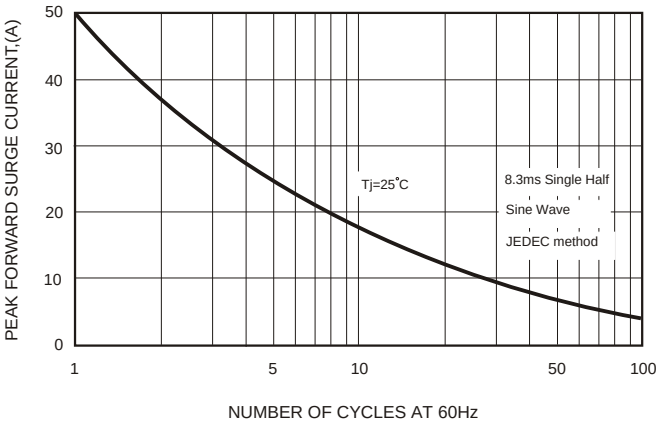



FIG.3-TYPICAL FORWARD CHARACTERISTICS

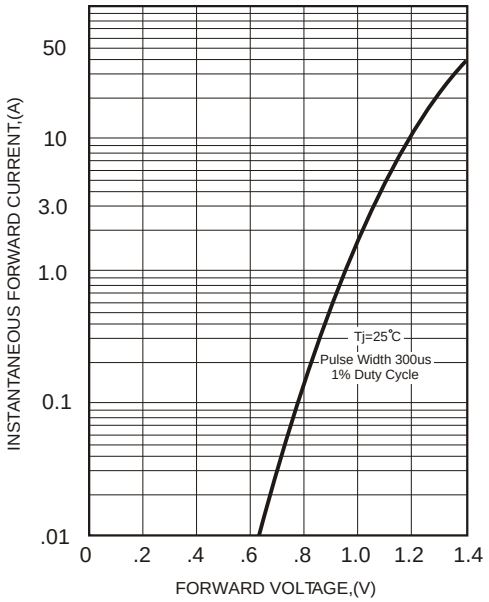



FIG.4-TYPICAL REVERSE CHARACTERISTICS

