

# RB SERIES

## SINGLE PHASE 1.5 AMPS. SILICON BRIDGE RECTIFIERS

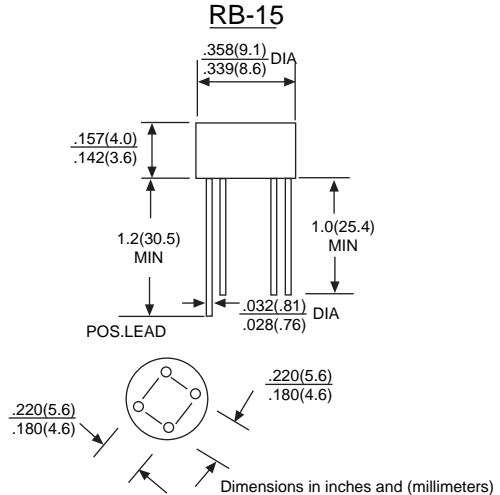
**Voltage Range**  
**50 to 1000 Volts**  
**Current**  
**1.5 Amperes**

### FEATURES

- \*UL Recognized File # E 230084
- \*Surge overload ratings to 40 amperes peak
- \*Ideal for printed circuit board
- \*Reliable low cost construction technique results in inexpensive product
- \*High temperature soldering guaranteed:  
250°C / 10 seconds / 0.375" (9.5mm)  
lead length at 5 lbs., (2.3kg ) tension

### Mechanical Data

- \*Case:Molded plastic
- \*Lead:solder plated
- \*Polarity:As marked
- \*Weight:1.07 grams



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 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 Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T <sub>A</sub> = 50°C	I <sub>F(AV)</sub>	1.5							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	40							A
Maximum Instantaneous Forward Voltage Drop Per Leg @1.0A	V <sub>F</sub>	1.0							V
Maximum DC Reverse Current at Rated DC Blocking Voltage T <sub>A</sub> = 25°C T <sub>A</sub> = 100°C	I <sub>R</sub>	10 500							µA µA
Operating Temperature Range	T <sub>J</sub>	-55 to+125							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to+150							°C

# RATING AND CHARACTERISTIC CURVES

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FIG.1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

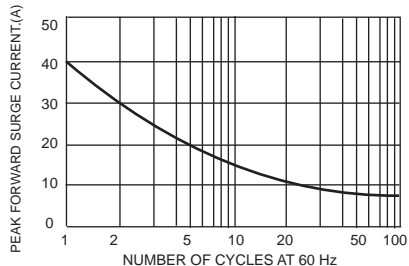


FIG.2 - MAXIMUM FORWARD CURRENT DERATING CURVE

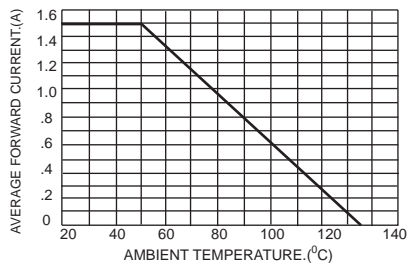


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

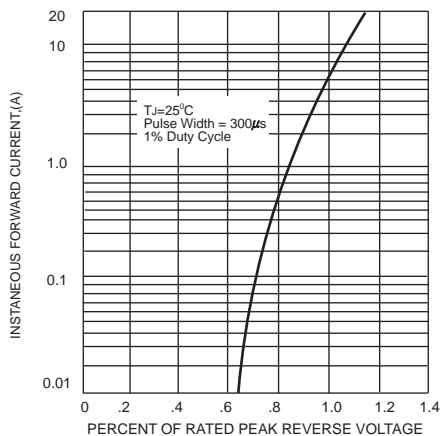


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

