

RB SERIES

SINGLE PHASE 1.5AMPS. SILICON BRIDGE RECTIFIERS

Voltage Range
50 to 1000 Volts
Current
1.5 Amperes

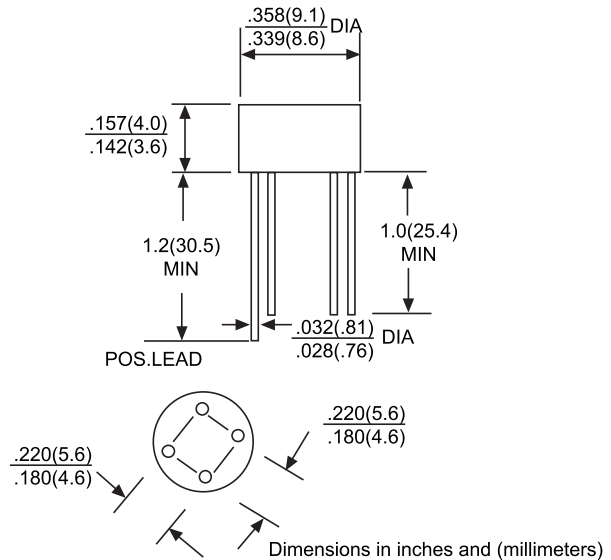
FEATURES

- *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

RB-15



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

RATING AND CHARACTERISTIC CURVES RB SERIES

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

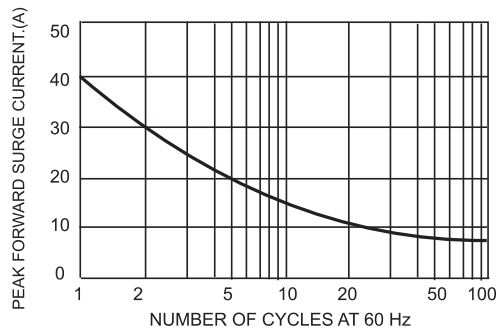


FIG.2 - MAXIMUM FORWARD CURRENT DERATING CURVE

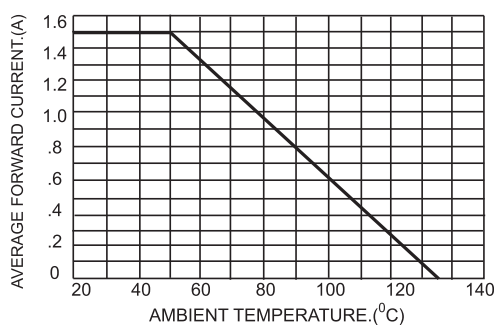


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

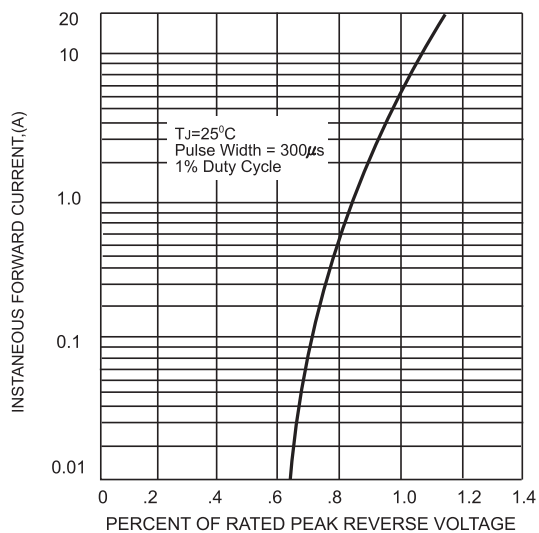


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

