Topdiode Manufacturing Company
Diode | Capacitors
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RB SERIES

**SINGLE PHASE 1.5 AMPS.
SILICON BRIDGE
RECTIFIERS**

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

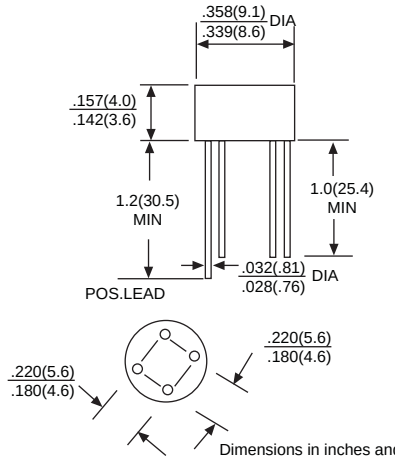
FEATURES

*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



Dimensions in inches and (millimeters)

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
Maximun Instantaneous Forward Voltage Drop Per Leg @1.0A	V_F	1.0							V
Maximun DC Reverse Current @T_A = 25°C at Rated DC Blocking Voltage @T_A = 100°C	I_R	10 500							uA uA
Operating Temperature Range	T_J	-55 to+125							°C
Storage Temperature Range	T_{STG}	-55 to+150							°C

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RATING AND CHARACTERISTIC CURVES
RB SERIES

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

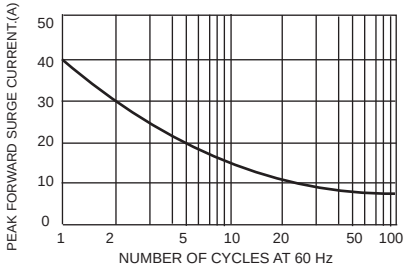

FIG.2 - MAXIMUN FORWARD CURRENT DERATING CURVE

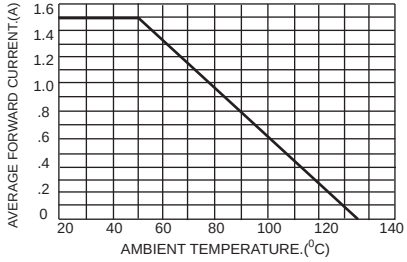

FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

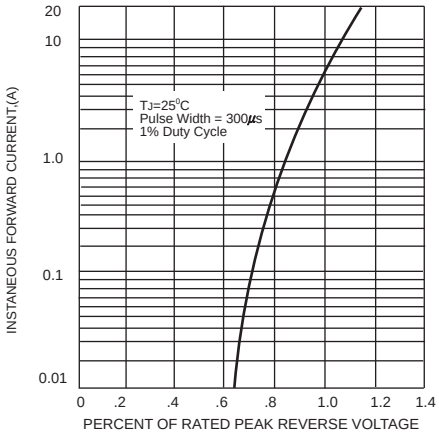

FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT