

RB151 THRU RB157

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.5 Amperes

FEATURES

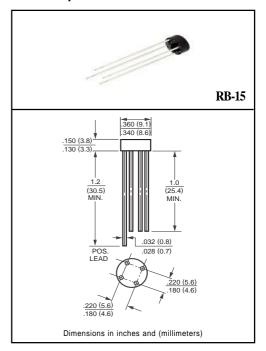
- * High reverse voltage to 1000v
- * Surge overload ratings to 50 amperes peak
- * Good for printed circuit board assembly
- * Weight: 1.04 grams
- * Silver-plated copper leads

MECHANICAL DATA

- * UL listed the recognized component directory, file #E94233
- * Epoxy: Device has UL flammability classification 94V-O

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	RB151	RB152	RB153	RB154	RB155	RB156	RB157	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at TA = 25°C	lo	1.5							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave	IESM 50							Amps	
superimposed on rated load (JEDEC method)	IFSM	50							
Typical Thermal Resistance (Note 1)	RθJA	36							°C/W
	RθJC	12							
Operating Temperature Range	TJ	-55 to + 150						٥C	
Storage Temperature Range	Тѕтс	-55 to + 150							٥C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

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CHARACTERISTICS		SYMBOL	RB151	RB152	RB153	RB154	RB155	RB156	RB157	UNITS
Maximum Forward Voltage Drop per Bridge Element at 1.0A DC		VF	1.0						Volts	
Maximum Reverse Current at Rated	@TA = 25°C	lo.	5.0							uAmps
DC Blocking Voltage per element	@TA = 100°C	lR	1						mAmps	

RATING AND CHARACTERISTIC CURVES (RB151 THRU RB157)

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

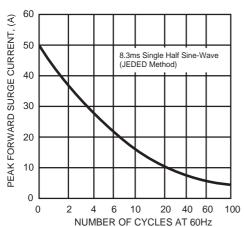


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

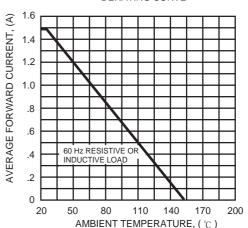


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

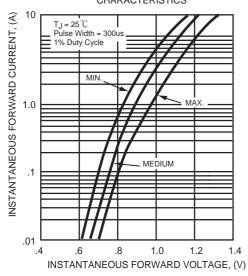


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

