

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

RB151 THRU RB157

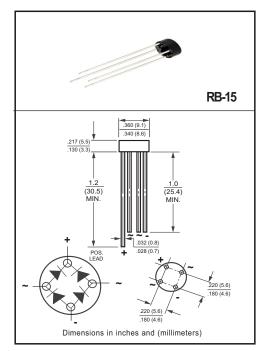
VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.5 Amperes

FEATURES

- * High reverse voltage to 1000V
- * Surge overload rating to 40 amperes peak
- * Good for printed circuit board assembly

MECHANICAL DATA

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified. resistive or inductive load.

RATINGS	SYMBOL	RB151	RB152	RB153	RB154	RB155	RB156	RB157	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T _A =25°C	Ι _ο	1.5							Amps
Peak Forward Surge Current 8.3 ms single half sine- superimposed on rated load (JEDEC method)	wave I _{FSM}	40						Amps	
Typical Current Squarad Time	l ² t	6.64						A ² /Sec	
Typical Thermal Resistance (Note 1)	R _{θJA}	36						°C/W	
Typical memai resistance (note T)	R _{θJC}				12				
Operating Temperature Range	TJ	-55 to + 150						°C	
Storage Temperature Range	T _{STG}	-55 to + 150							٥C
ELECTRICAL CHARACTERISTICS(@TA=25 °C unl	ess otherwise n	oted)							
CHARACTERISTICS	SYMBOL	RB151	RB152	RB153	RB154	RB155	RB156	RB157	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC	V _F	1.0							Volts
Maximum Average Reverse Current @T _A = 25	°C ,	IR 1.0 1.0						uА	
at Rated DC Blocking Voltage @T _A = 15	0°C ^{IR}							mA	

NOTES : 1. Thermal Resistance : Heat-sink 2. "ROHS compliant".

2020-08 REV:E

RATING AND CHARACTERISTICS CURVES (RB151 THRU RB157)

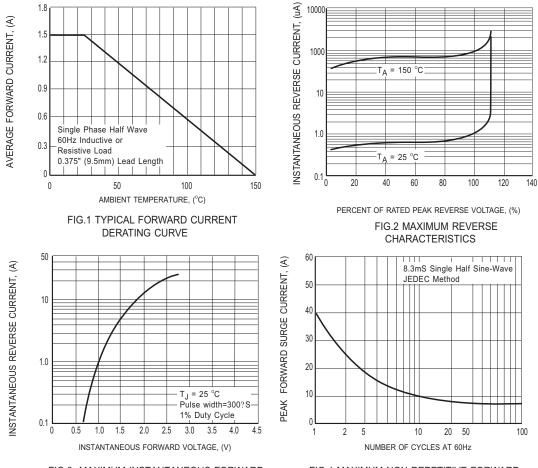
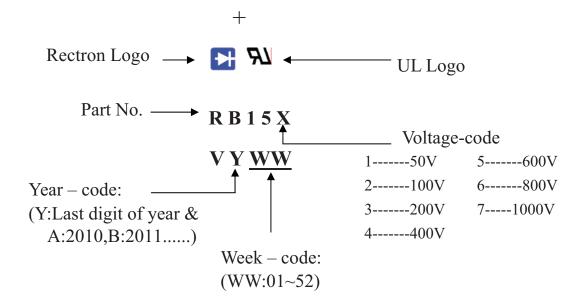


FIG.3 MAXIMUM INSTANTANEOUS FORWARD CHARACTERISTICS

FIG.4 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



Marking Description





PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKAGE	PACKING CODE EA PER BOX		INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
RB-15	-В	1,000	165*252*59	347*320*271	10,000	11.6



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