

# SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

RB151 THRU RB157

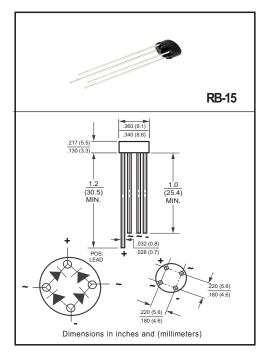
### VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.5 Amperes

#### 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

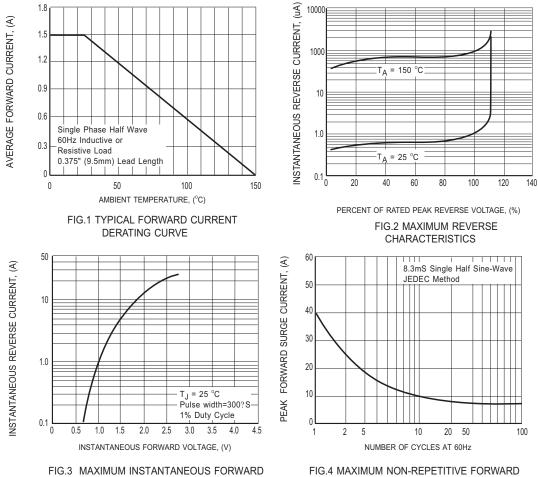


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified. resistive or inductive load.

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 <sub>A</sub> =25°C	Ι <sub>Ο</sub>	1.5							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	40							Amps
Typical Current Squarad Time	12t	6.64						A <sup>2</sup> /Sec	
Typical Thermal Resistance (Note 1)	R <sub>θJA</sub>	36						°C/W	
	R <sub>θJC</sub> 12								
Operating Temperature Range	TJ	-55 to + 150							٥C
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150						٥C	
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless o	therwise n	oted)							
CHARACTERISTICS	SYMBOL	RB151	RB152	RB153	RB154	RB155	RB156	RB157	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC		1.0						Volts	
Maximum Average Reverse Current @T <sub>A</sub> = 25°C		1.0							uA
at Rated DC Blocking Voltage @T <sub>A</sub> = 150°C	I <sub>R</sub>	1.0							

NOTES: 1. Thermal Resistance : Heat-sink case mounted. 2. "ROHS compliant". 2020-08 REV:E



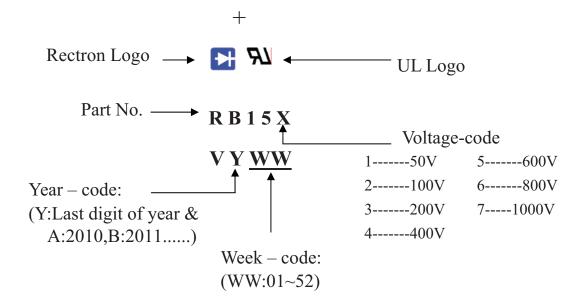


CHARACTERISTICS

FIG.4 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



# **Marking Description**



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# 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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