



### SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

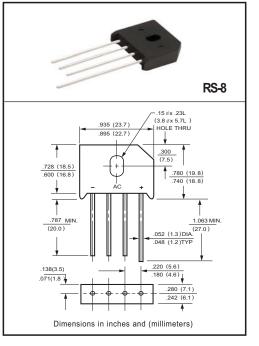
VOLTAGE RANGE 50 to 1000 Volts CURRENT 8.0 Amperes

#### **FEATURES**

- \* Ideal for printed circuit board
- \* Surge overload rating: 250 amperes peak
- \* Low leakage
- \* Mounting position: Any
- \* Low forward voltage
- \* High forward surge current capability

#### **MECHANICAL DATA**

- \* Epoxy: Device has UL flammability classification 94V-O
- \* UL listed the recognized component directory,file #94233



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

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

RATINGS	SYMBOL	RS801	RS802	RS803	RS804	RS805	RS806	RS807	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at $T_C = 75^{\circ}C$	Ι <sub>Ο</sub>	8.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	250					Amps		
Current Squarad Time	$I^2T$	259.2					A <sup>2</sup> /Sec		
Typical Thermal Resistance (Note 1)	$R_{\Theta JC}$	7							
	R <sub>ØJA</sub>	18							•C/W
Operating and Storage Temperature Range	Tj, T <sub>STG</sub>	-55 to + 150					٥C		

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

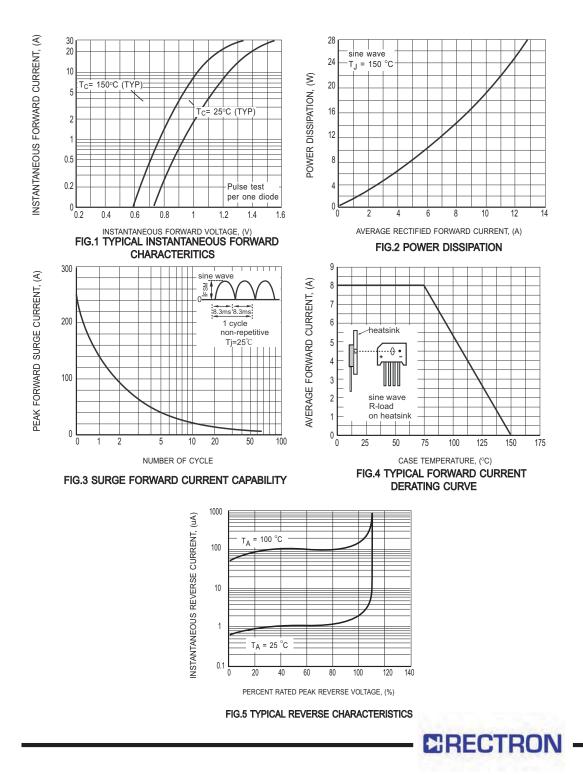
CHARACTERISTICS		SYMBOL	RS801	RS802	RS803	RS804	RS805	RS806	RS807	UNITS
Maximum Instantaneous Forward Voltage at 8.0A DC		VF	1.2							Volts
Maximum DC Reverse Current	@T <sub>A</sub> = 25°C	– I <sub>R</sub>				5.0				
at Rated DC Blocking Voltage	@T <sub>A</sub> = 100°C					200				uAmps

NOTES : 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted. 2. " ROHS compliant".

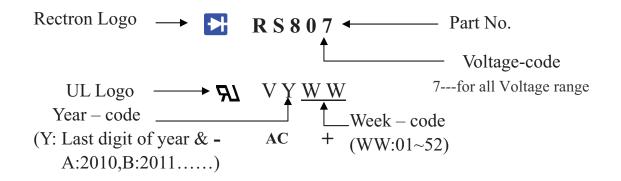
3. Measureed at 1MHz and applied reverse voltage of 4.0 volts.

2021-08 REV:F





## **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)	
RS-6/RS-8	-В	400	214*235*56	435*245*186	2,400	16.0	



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