



# SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

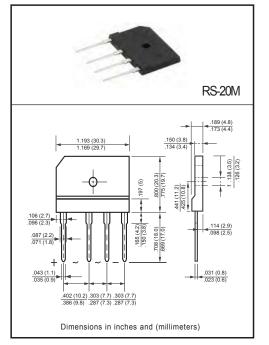
VOLTAGE RANGE 50 to 1000 Volts CURRENT 20 Amperes

### FEATURES

- \* Low leakage
- \* Low forward voltage
- \* Surge overload rating : 300 amperes peak
- \* Mounting position: Any
- \* Ideal for printed circuit boards
- \* High forward surge current capability

### MECHANICAL DATA

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



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	RS2001M	RS2002M	RS2003M	RS2004M	RS2005M	RS2006M	RS2007M	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 <sub>C</sub> = 55°C	10	0 20						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	IFSM 300						Amps	
Typical Current Squared Time	I <sup>2</sup> T	I <sup>2</sup> T 373.3					A <sup>2</sup> S		
Insulation voltage	Viso	o 3000						Volts	
Typical Thermal Resistance (Note 1)	R <sub>OJC</sub>	1.5							⁰C/W
Typical memial resistance (NULE T)	$R_{\Theta JA}$	22							0/10
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	G -55 to + 150					° C		

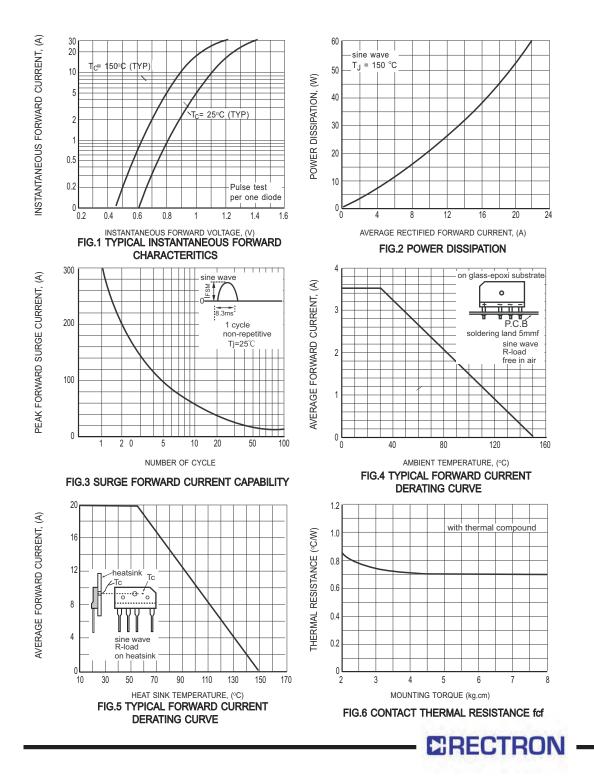
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

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CHARACTERISTICS SYN			RS2001M	RS2002M	RS2003M	RS2004M	RS2005M	RS2006M	RS2007M	UNITS
Maximum Instantaneous Forward Vo	VF	1.1						Volts		
Maximum DC Reverse Current	@T <sub>A</sub> = 25°C	la la	5.0							
at Rated DC Blocking Voltage	@T <sub>A</sub> = 100°C	I IR	200						uAmps	

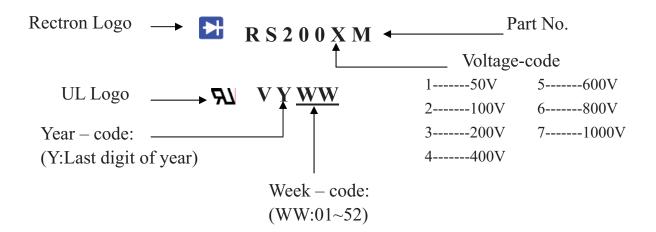
NOTES: 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted. 2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

2014-03 REV:B





# **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-20M	-В	300	230*190*46	410*243*157	1,800	13.37	

### TUBE PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	WEIGHT(Kg)
RS-20M	-C	600	490*135*110	510*293*131	1,200	13.12



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