



### SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 10 Amperes

#### **FEATURES**

- \* Low leakage
- \* Low forward voltage
- Mounting position : Any
  Surge overload rating: 200 Amperes peak
  Ideal for printed circuit boards
- \* MSL: Level 2

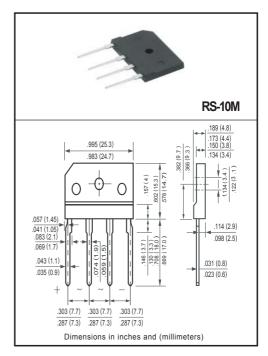
#### **MECHANICAL DATA**

resistive or inductive load.

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25  $^{\circ}\text{C}$  ambient temperature unless otherwise specified.



**RS1001M** 

THRU

**RS1007M** 

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

CHARACTERISTICS	SYMBOL	RS1001M	RS1002M	RS1003M	RS1004M	RS1005M	RS1006M	RS1007M	UNITS
Maximum Recurrent Peak Reverse Voltage		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		50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current at Tc=100 degree with heatsink	lo	10							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load	IFSM	200						Amps	
ypical Current Square Time I <sup>2</sup> T 165.9							A <sup>2</sup> S		
Typical Thermal Resistance from junction to ambient	R0ja	22							- °c/w
Typical Thermal Resistance from junction to case	R0jc	1.0						0/10	
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150						°C	

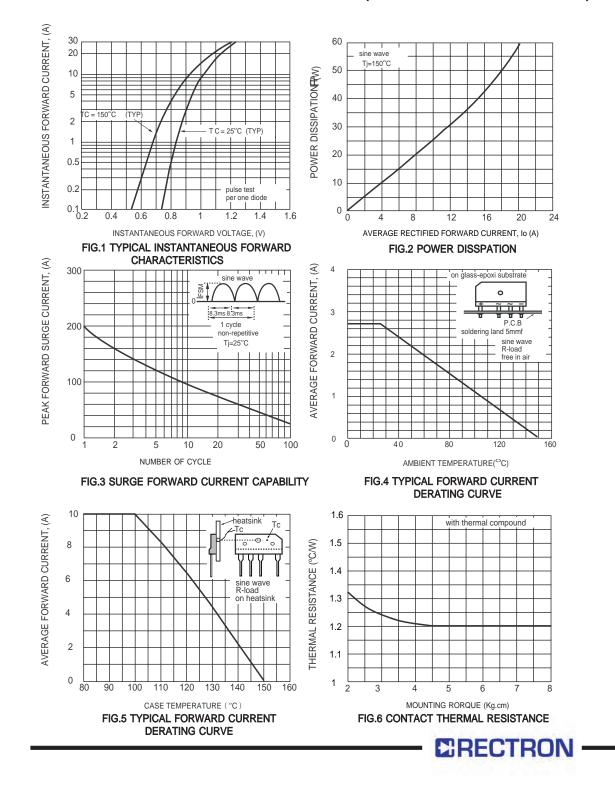
#### ELECTRICAL CHARACTERISTICS ( @ TA = 25°C unless otherwise noted )

CHARACTERISTICS	SYMBOL	RS1001M	RS1002M	RS1003M	RS1004M	RS1005M	RS1006M	RS1007M	UNITS	
Maximum Forward Voltage Drop per element at	VF	1.1						Volts		
Maximum Reverse Current at Rated DC Blocking Voltage per element	@TA=25 °C	IR				5.0				μAmps
	@TC=100 °C	IIX	0.2							mAmps

Note: 1."Fully ROHS compliant", "100% Sn plating (Pb-free)".

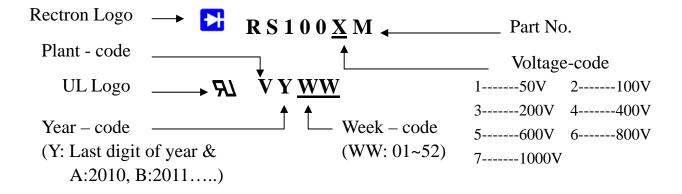
2. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

2010-11 REV: A



#### RATING AND CHARACTERISTICS CURVES (RS1001M THRU RS1007M)

# **Marking Description**



# PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)		
RS-4M/-10M	-B	600	236*236*40	497*251*100	2,400	11.09

#### TUBE PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	WEIGHT(Kg)
RS-4M/-10M	-C	900	540*118*118	560*259*144	1,800	12.82

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