## RS2001M THRU **RS2007M**

### SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

### VOLTAGE RANGE 50 to 1000 Volts CURRENT 20 Amperes

#### **FEATURES**

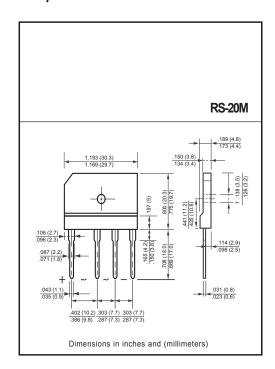
- \* Low leakage
- \* Low forward voltage
- \* Surge overload rating : 300 amperes peak
- \* Mounting position: Any
- \* Ideal for printed circuit boards
- \* High forward surge current capability

#### **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	$V_{RRM}$	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	I <sub>0</sub>	20						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	300						Amps	
Typical Current Squared Time	I <sup>2</sup> T	373.3					A <sup>2</sup> S		
Tunical Thermal Desistance (Note 1)	$R_{\theta JC}$	1.5							00.04
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	22						°C/W	
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to + 150					٥C		

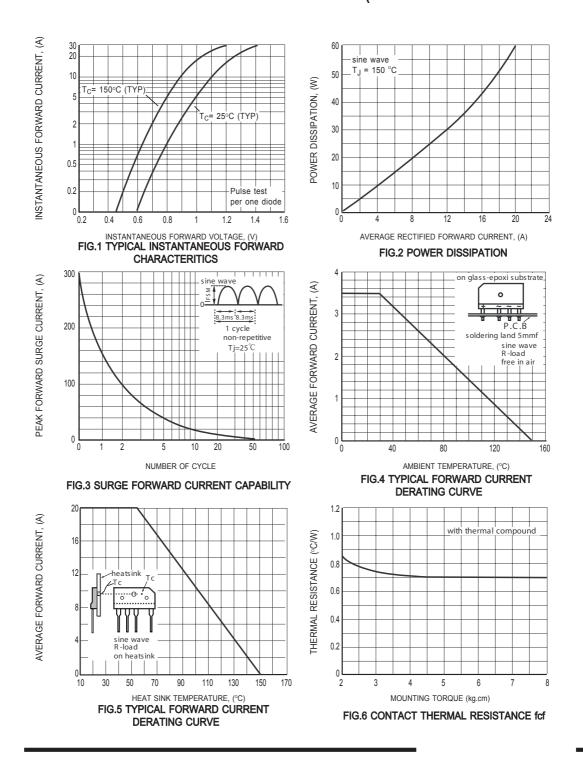
#### ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERIST	SYMBOL	RS2001M	RS2002M	RS2003M	RS2004M	RS2005M	RS2006M	RS2007M	UNITS	
Maximum Instantaneous Forward V	V <sub>F</sub>	1.1					Volts			
Maximum DC Reverse Current @TA = 25°C		la.	5.0							
at Rated DC Blocking Voltage	@T <sub>A</sub> = 100°C	'R				100				uAmps

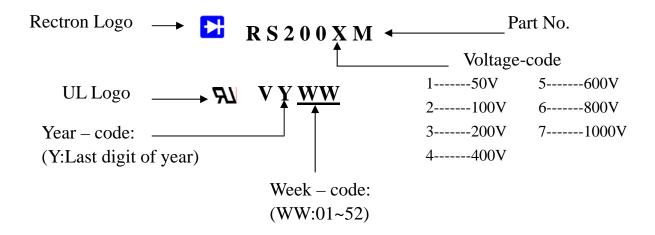
NOTES: 1.Thermal Resistance: Heat-sink case mounted or if PCB mounted. 2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

2010-01 REV:A

## RATING AND CHARACTERISTICS CURVES (RS2001M THRU RS2007M)



# **Marking Description**



# PACKAGING OF DIODE AND BRIDGE RECTIFIERS

## BULK PACK

PACKAGE	PACKING CODE EA PER		INNER BOX SIZE CARTON SIZE (mm) (mm)		EA PER CARTON	GROSS WEIGHT(Kg)	
RS-20M	-B	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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