

RS2001M THRU RS2007M

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 20 Amperes

FEATURES

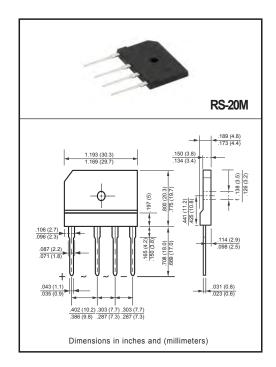
- * Low leakage
- * Low forward voltage
- * Surge overload rating : 300 amperes peak
- * Mounting position: Any
- * Ideal for printed circuit boards
- * High forward surge current capability

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 _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T _C = 55°C	I ₀	20					Amps		
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	300					Amps		
Typical Current Squared Time	I ² T	373.3					A ² S		
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	1.5							°C/W
Typical Thermal Resistance (NOTE 1)	$R_{\theta JA}$	22						-C/W	
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150					٥C		

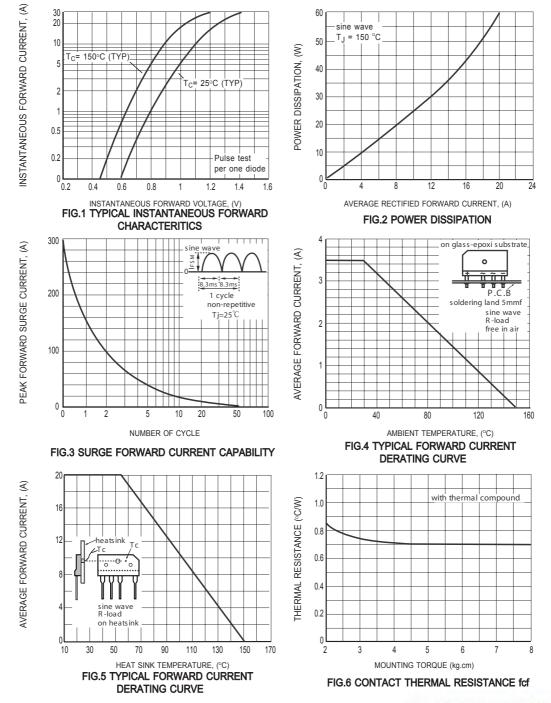
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERIST	SYMBOL	RS2001M	RS2002M	RS2003M	RS2004M	RS2005M	RS2006M	RS2007M	UNITS
Maximum Instantaneous Forward V	V _F	1.1					Volts		
Maximum DC Reverse Current @TA = 25°C		la.	5.0						
at Rated DC Blocking Voltage	@T _A = 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)".

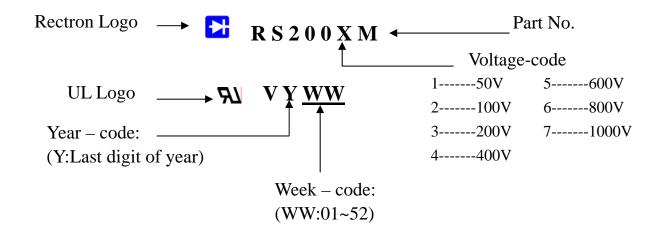
2010-01 REV:A

RATING AND CHARACTERISTICS CURVES (RS2001M THRU RS2007M)





Marking Description



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKAGE	PACKING CODE EA PER BOX		INNER BOX SIZE (mm)			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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