

RS2501M THRU RS2507M

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 25 Amperes

FEATURES

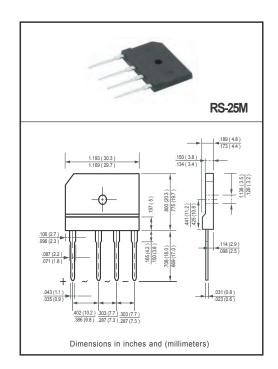
- * Low leakage
- * Low forward voltage
- * Mounting position: Any
- * Surge overload rating: 300 amperes peak
- * Ideal for printed cikcuit boakds
- * High forward surge current capability

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 $^{\circ}\text{C}$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.



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

WAXIWOW RATINGS (@ TA-25 °C unit	coo otherwise hote	α,								
RATINGS		SYMBOL	RS2501M	RS2502M	RS2503M	RS2504M	RS2505M	RS2506M	RS2507M	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 with heatsink Current at T _C =55°C without heatsink		Io	25 4.3							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 _{θJC}	1.0							°C/W
Typical Thermal Resistance (Note 1)		R _{θJA}	22						°C/W	
Operating Temperature Range		TJ	150							٥C
Storage Temperature Range		T _{STG}	-55 to + 150							٥C

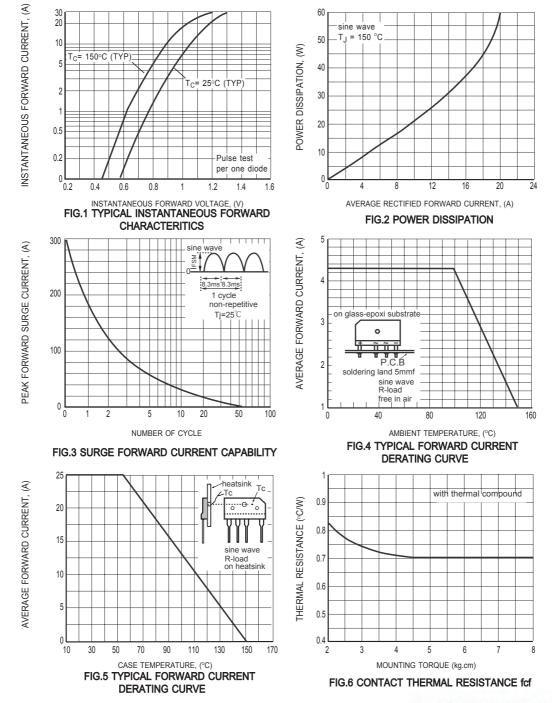
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

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CHARACTERISTICS			RS2501M	RS2502M	RS2503M	RS2504M	RS2505M	RS2506M	RS2507M	UNITS
Maximum Forward Voltage at 12.5A DC		VF	1.1							Volts
Maximum DC Average Reverse Current at (@Ta = 25°C	la .				5.0				uAmps
Rated DC Blocking Voltage	@TA = 125°C	l 'R	200							uAmps

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

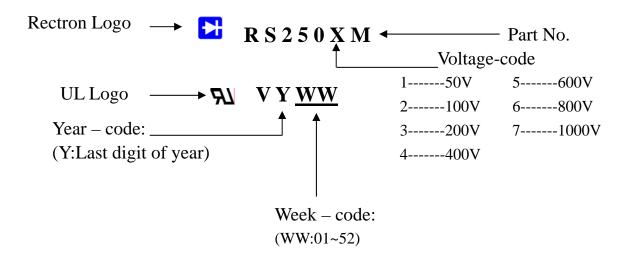
2010-01 REV:A

RATING AND CHARACTERISTICS CURVES (RS2501M THRU RS2507M)





Marking Description





PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKAC	E PACKING C	ODE EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)	
RS-25N	-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-25M	-C	600	490*135*110	510*293*131	1,200	13.12	



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