

RS2501M THRU RS2507M

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 25 Amperes

FEATURES

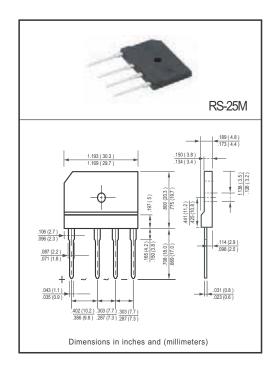
- * Low leakage
- * Low forward voltage
- * Mounting position: Any
- * Surge overload rating: 350 amperes peak
- * Ideal for printed cikcuit boakds
- * High forward surge current capability
- * ESD :HBM ----3B,MM----M4, CDM ----C7
- * MSL:Level 1

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. Single phase, half wave, 60 Hz, resistive or inductive load.



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

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 RSM Voltage		V _{RSM}	150	200	300	500	700	900	1100	Volts
Maximum Average Forward Rectified with heatsink Current at T _c =100°C without heatsink		I _O	25 4.3							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	350						Amps	
Typical Current Squared Time		I ² t	508						A ² S	
Insulation voltage		Viso	3000						Volts	
Typical Thermal Resistance (Note 1)		R _{0JC}	1.0						°C/W	
Typical Thermal Resistance (Note 1)		R _{0JA}	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)

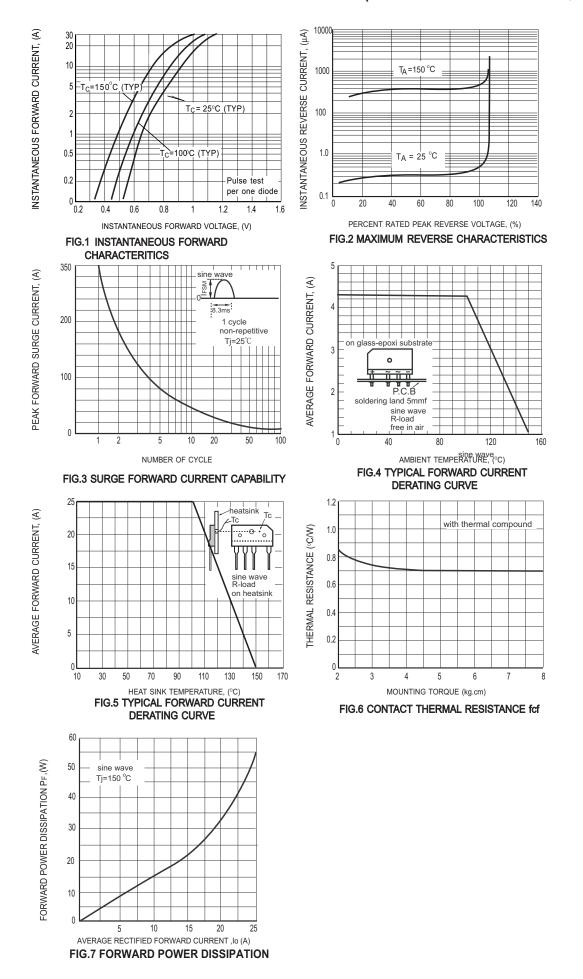
CHARACTERISTI	SYMBOL	RS2501M	RS2502M	RS2503M	RS2504M	RS2505M	RS2506M	RS2507M	UNITS	
Maximum Forward Voltage at 12.5A DC	VF	1.0						Volts		
Maximum DC Average Reverse Current at	@TA = 25°C	= 25°C		0.5						uAmps
Rated DC Blocking Voltage	@TA = 150°C	IR IR	500							uAmps

NOTES: 1. Thermal resistance: Heat-sink case mounted.

2. "ROHS compliant".

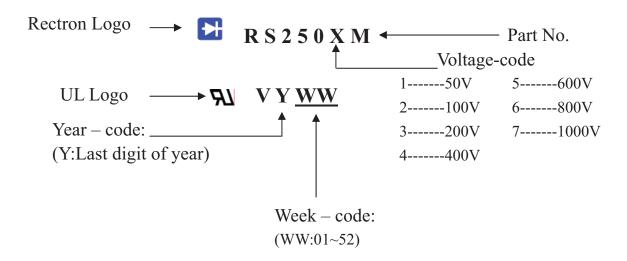
2022-02 REV:I

RATING AND CHARACTERISTICS CURVES (RS2501M THRU RS2507M)





Marking Description





PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKAGE	PACKING CODE	PACKING CODE EA PER BOX		CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)	
RS-25M	-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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