



SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 25 Amperes

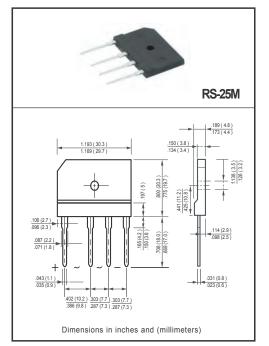
FEATURES

* 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 °C ambient temperature unless otherwise specified.

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

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

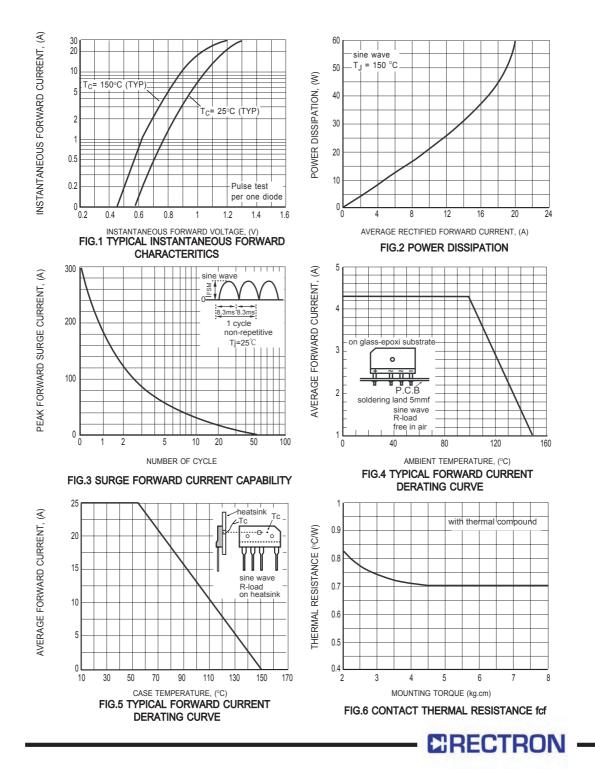
RATINGS		SYMBOL	RS2501M	RS2502M	RS2503M	RS2504M	RS2505M	RS2506M	RS2507M	UNITS
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T _C =55°C	with heatsink 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}	300							Amps
Typical Current Squared Time		l ² t	373.3							A ² S
Typical Thermal Resistance (Note 1)		R _{θJC}	1.0							⁰C/W
Typical Thermal Resistance (Note 1)		R _{θJA}	22							°C/W
Operating Temperature Range		TJ	150							۰C
Storage Temperature Range		T _{STG}	-55 to + 150						٥C	

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

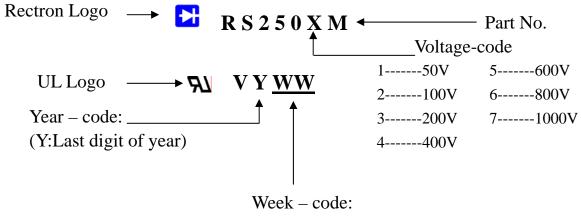
CHARACTERISTICS		SYMBOL	RS2501M	RS2502M	RS2503M	RS2504M	RS2505M	RS2506M	RS2507M	UNITS
Maximum Forward Voltage at 12.5A DC		VF	1.1							Volts
Maximum DC Average Reverse Current at	@TA = 25°C	6	5.0							uAmps
Rated DC Blocking Voltage	@Ta = 125°C		200							uAmps
NOTES 1 Thermal resistance . Heat-sink case mounted							2010-01			

NOTES : 1. Thermal resistance : Heat-slift case mounted. 2. "Fully ROHS compliant", "100% Sn plating (Pb-free)". 2010-01 REV:A





Marking Description



(WW:01~52)



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)	
RS-25M	-B	300	230*190*46	410*243*157	1,800	13.37	

TUBE PACK

PACKAGE	PACKING CODE EA PER BO		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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