

RS2505M -C-LV

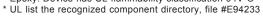
SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER VOLTAGE RANGE 600 Volts CURRENT 25 Amperes

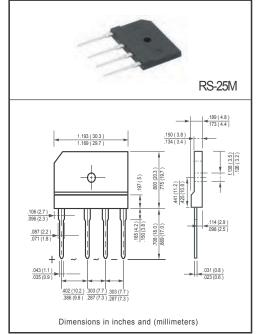
FEATURES

- * 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





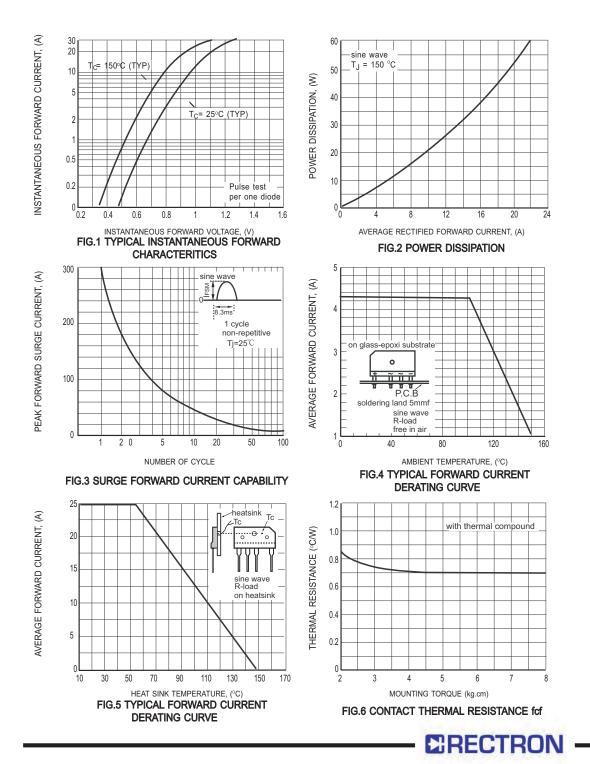
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

RATINGS		SYMBOL	RS2505M-C-LV	UNITS
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	600	Volts
Maximum RMS Voltage		V _{RMS}	420	Volts
Maximum DC Blocking Voltage		V _{DC}	600	Volts
Maximum Average Forward Rectified Current at T _C =55°C	with heatsink without heatsink	lo 25		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
Insulation voltage		Viso	3000	Volts
Typical Thermal Resistance (Note 1)		R OJC	1.0	°C/W
Typical Thermal Resistance (Note 1)		R _{ØJA}	22	°C/W
Operating Temperature Range		TJ	150	° C
Storage Temperature Range		T _{STG}	-55 to + 150	۰C

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

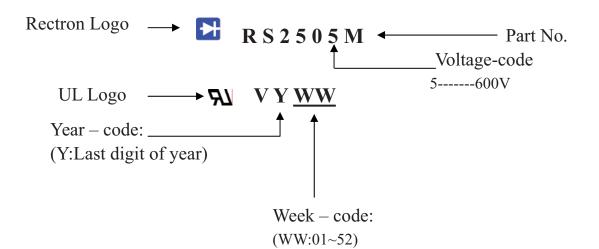
CHARACTERISTICS		RS2505M-C-LV	
Maximum Forward Voltage at 12.5A DC	VF	0.92	
Maximum DC Average Reverse Current at @TA = 2	5°C	5.0	uAmps
Rated DC Blocking Voltage @TA = 1	25°C	200	uAmps

NOTES : 1. Thermal resistance : Heat-sink case mounted. 2. "Fully ROHS compliant", "100% Sn plating (Pb-free)". 2016-12 REV:O



RATING AND CHARACTERISTICS CURVES (RS2505M-C-LV)

Marking Description





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 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



DISCLAIMER NOTICE

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures.

