

RS2505M -C-LV

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

FEATURES

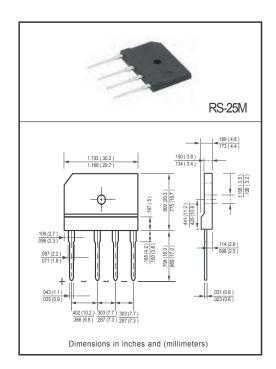
- * Low leakage
- * Low forward voltage
- * Mounting position: Any
- * Surge overload rating: 300 amperes peak
- * Ideal for printed cikcuit boakds
- * High forward surge current capability

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * UL list the recognized component directory, file #E94233
- * Halogen-free

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)

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RATINGS		YMBOL	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 with heatsink Current at T _C =55°C without heatsink		I _O		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
Insulation voltage		Viso	3000	Volts
Typical Thermal Resistance (Note 1)		R⊖JC	1.0	°C/W
Typical Thermal Resistance (Note 1)		R⊝JA	22	°C/W
Operating Temperature Range		TJ	150	۰c
Storage Temperature Range		T _{STG}	-55 to + 150	۰c

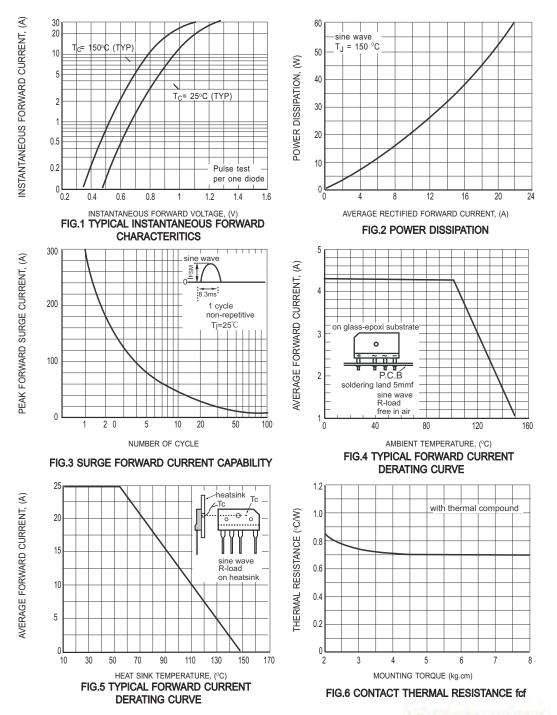
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERISTICS		RS2505M-C-LV	UNITS
Maximum Forward Voltage at 12.5A DC	VF	0.92	
Maximum DC Average Reverse Current at @TA = 25°C	L	5.0	uAmps
Rated DC Blocking Voltage @TA = 125°C	'R	200	uAmps

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

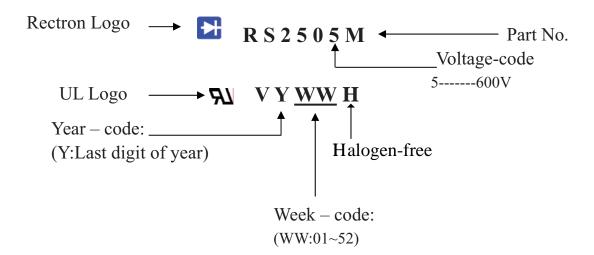
2017-11

RATING AND CHARACTERISTICS CURVES (RS2505M-C-LV)





Marking Description





PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PA	CKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
R	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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