

RS2501M THRU RS2507M

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 25 Amperes

FEATURES

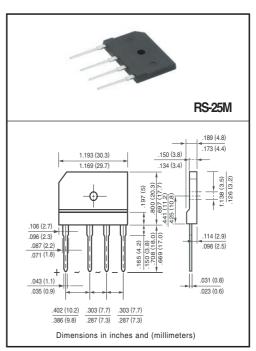
- * Low leakage
- * Low forward voltage
- * Mounting position : Any
 * Surge overload rating: 300 Amperes peak
 * Ideal for printed circuit boards
- * High forward surge current capability

MECHANICAL DATA

- * UL listed the recognized component directory, file #E94233
- * 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. For capacitive load, derate current by 20%



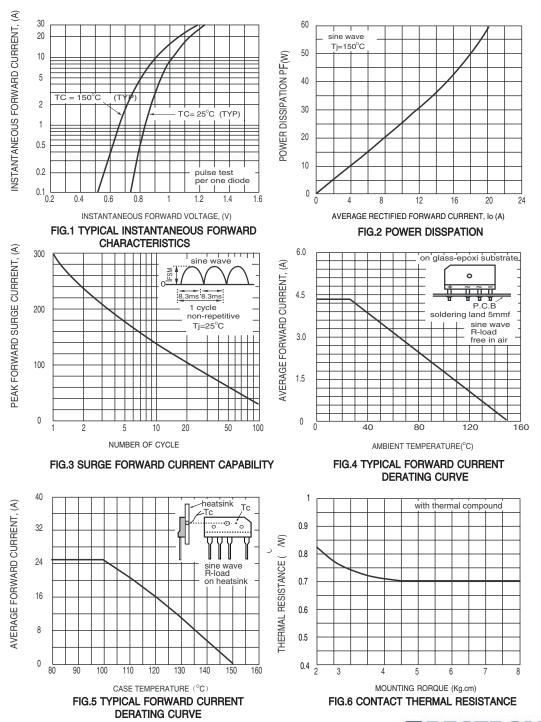
MAXIMUM CHARACTERISTICS (@ TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	RS2501M	RS2502M	RS2503M	RS2504M	RS2505M	RS2506M	RS2507M	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified (with heatsink) Output Current (without heatsink)	lo	25 4.3							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load	IFSM	300						Amps	
Typical Thermal Resistance from junction to ambient	RθJA	22							°0004
Typical Thermal Resistance from junction to case	Rejc	1.0					°C/W		
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150							°C

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

CHARACTERISTICS		SYMBOL	RS2501M	RS2502M	RS2503M	RS2504M	RS2505M	RS2506M	RS2507M	UNITS
Maximum Forward Voltage Drop per element at 12.5A DC		VF	1.1						Volts	
Maximum Reverse Current at Rated DC Blocking Voltage per element	@TA=25 °C	IR	5.0							μAmps
	@TC=100 °C		0.2							mAmps

RATING AND CHARACTERISTICS CURVES (RS2501M THRU RS2507M)





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