

RS1501M THRU RS1507M

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 15 Amperes

FEATURES

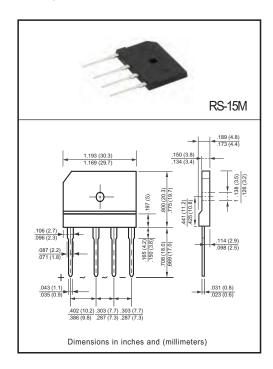
- * Low leakage
- * Low forward voltage
- * Surge overload rating: 250 amperes peak
- * Mounting position: Any
- * Ideal for printed circuit boards
- * High forward surge current capability

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. resistive or inductive load.



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

RATINGS	SYMBOL	RS1501M	RS1502M	RS1503M	RS1504M	RS1505M	RS1506M	RS1507M	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 = 100°C	I ₀	15						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	250						Amps	
Typical Current Squared Time	I ² T	259.3						A ² S	
Typical Thermal Resistance (Note 1)	R _{OJC}	1.5							°C/W
Typical Thermal Resistance (Note 1)	$R_{\Theta JA}$	22							-0/00
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150					٥C		

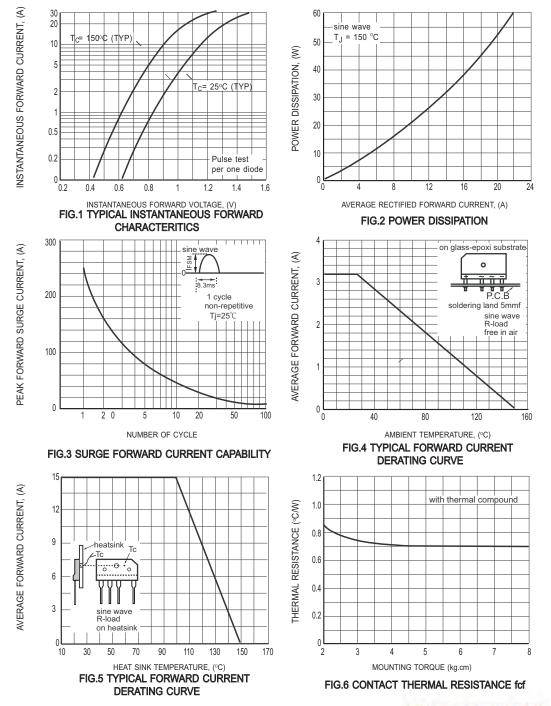
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

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CHARACTERIST	SYMBOL	RS1501M	RS1502M	RS1503M	RS1504M	RS1505M	RS1506M	RS1507M	UNITS	
Maximum Instantaneous Forward Vo	V _F	1.1						Volts		
Maximum DC Reverse Current	le.				5.0					
at Rated DC Blocking Voltage	@T _Δ = 100°C	ik ik	200						uAmps	

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

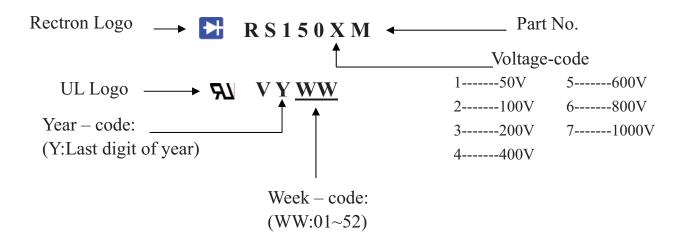
2014-12 REV:B

RATING AND CHARACTERISTICS CURVES (RS1501M THRU RS1507M)





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-15M	-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-15M	-C	600	490*135*110	510*293*131	1,200	13.12	



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