

RS3501M THRU RS3507M

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 35 Amperes

FEATURES

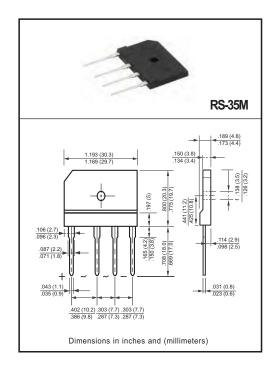
- * Low leakage
- * Low forward voltage
- * Surge overload rating: 300 amperes peak
- * Mounting position: Any
- * Ideal for printed circuit boards
- * High forward surge current capability

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * UL list the recognized component directory,file #E252754

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)

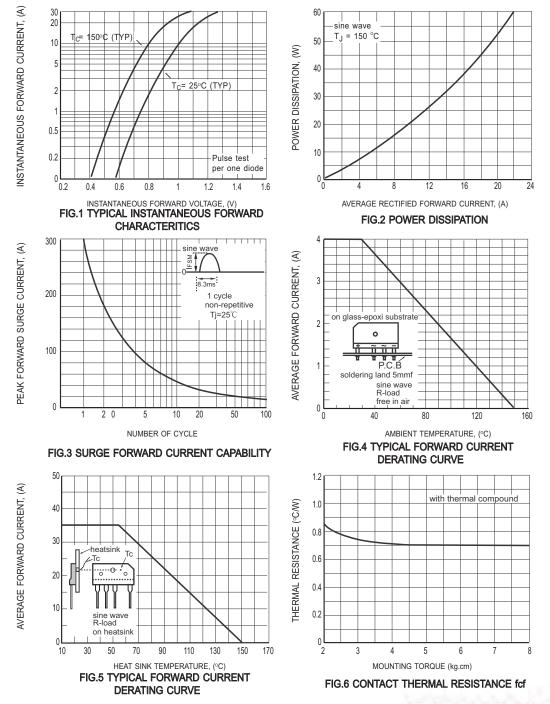
RATINGS	SYMBOL	RS3501M	RS3502M	RS3503M	RS3504M	RS3505M	RS3506M	RS3507M	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T _C = 55°C	lo	35						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 _{⊖JL}	1.0							°C/W
Typical Thermal Resistance (Note 1)	R _{⊕JA}	22							
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150					٥C		

$\textbf{ELECTRICAL CHARACTERISTICS}(@T_A = 25 \ ^{\circ}\text{C unless otherwise noted})$

CHARACTERIST	SYMBOL	RS3501M	RS3502M	RS3503M	RS3504M	RS3505M	RS3506M	RS3507M	UNITS
Maximum Instantaneous Forward Vo	V _F	1.1						Volts	
Maximum DC Reverse Current	@T _A = 25°C	la.	5.0						uAmps
at Rated DC Blocking Voltage	@T _A = 125°C	IR IR	200						

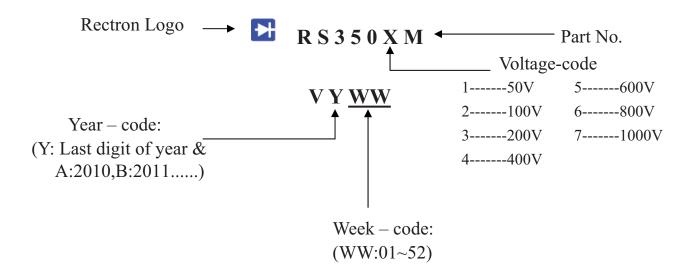
NOTES: 1.Thermal Resistance: Heat-sink case mounted or if PCB mounted. 2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

RATING AND CHARACTERISTICS CURVES (RS3501M THRU RS3507M)





Marking Description





PACKAGING OF DIODE AND BRIDGE RECTIFIERS

TUBE PACK

PACKAGE	PACKING CODE EA PER BOX		INNER BOX SIZE CARTON SI (mm) (mm)		EA PER CARTON	WEIGHT(Kg)	
RS-35M	-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.

