RECTRON SEMICONDUCTOR
TECHNICAL SPECIFICATION

RS805MH THRU RS807MH

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 600 to 1000 Volts CURRENT 8.0 Amperes

FEATURES

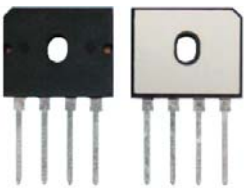
* Low leakage
* Low forward voltage
* Mounting position: Any
* Ideal for printed circuit boards
* High forward surge current capability

MECHANICAL DATA

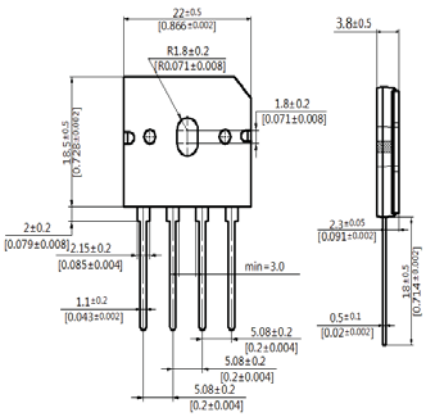
* Epoxy: Device has UL flammability classification 94V-O
* Packaging:250Pcs/Box,3000Pcs/Carton

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.
resistive or inductive load.



RS-8M



Dimensions in inches and (millimeters)

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

RATINGS	SYMBOL	RS805MH	RS806MH	RS807MH	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	600	800	1000	Volts
Maximum Average Forward Rectified Current at T_C=90°C (with heat sink)	I_O	8.0			Amps
Peak Forward Surge Current 10 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	185			Amps
Current Squarad Time	I^2T	142			A^2/Sec
RMS isolation voltage from case to lead	Viso	3000			Vac
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	2.0			°C/W
	$R_{\theta JA}$	20			
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to + 150			°C

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

CHARACTERISTICS		SYMBOL	RS805MH	RS806MH	RS807MH	UNITS
Maximum Instantaneous Forward Voltage at 4.0A DC		V_F	1.0			Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T_A = 25°C	I_R	5.0			uAmps
	@T_A = 125°C		250			

NOTES : 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted.
2. " ROHS compliant".

2021-12/30
REV:A

RATING AND CHARACTERISTICS CURVES (RM805MH THRU RM807MH)

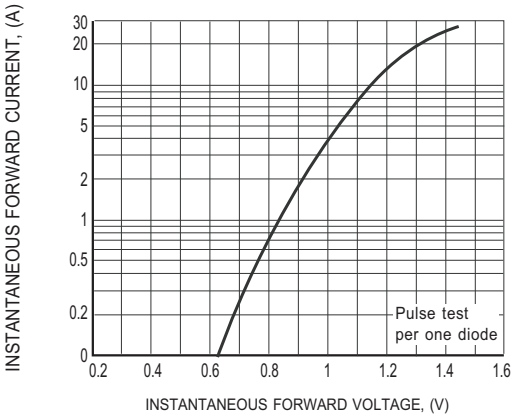


FIG.1 MAXIMUM INSTANTANEOUS FORWARD CHARACTERITICS

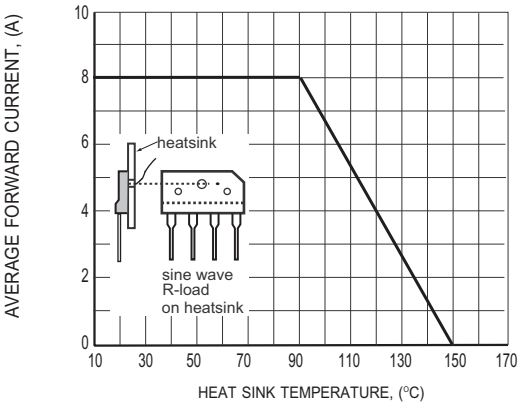


FIG.2 TYPICAL FORWARD CURRENT DERATING CURVE

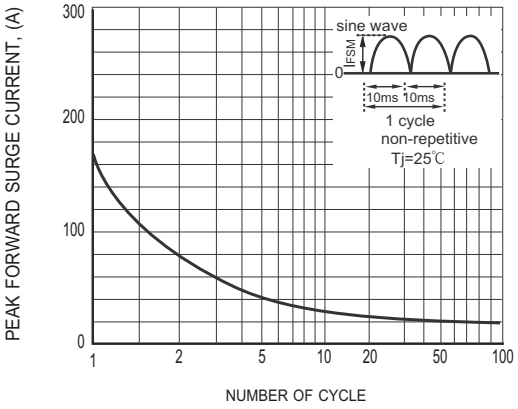


FIG.3 SURGE FORWARD CURRENT CAPABILITY

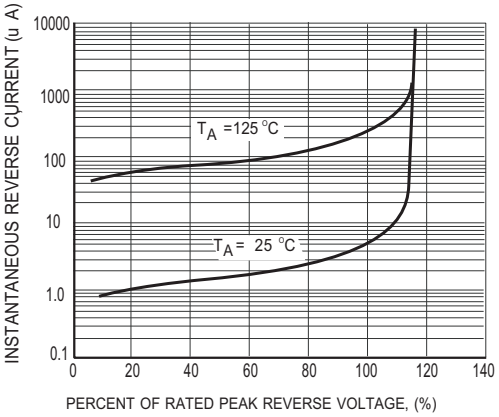
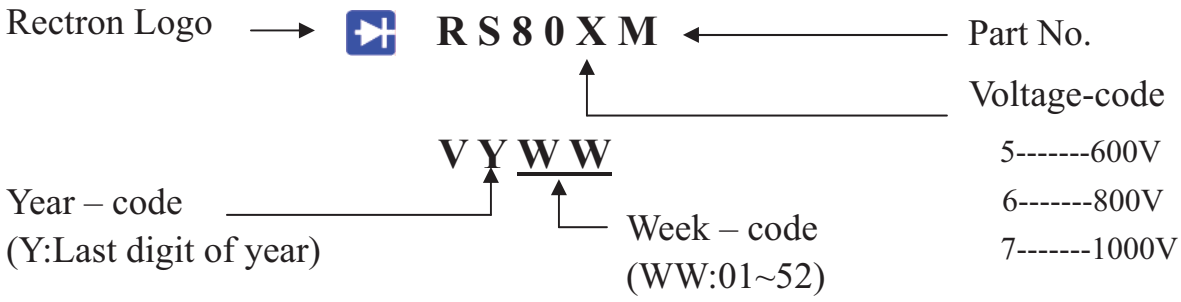


FIG.4 MAXIMUM REVERSE CHARACTERISTICS

Marking Description



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