

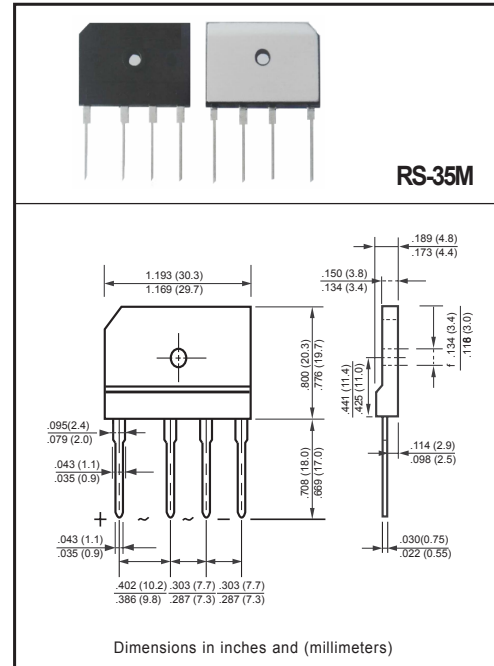
**SINGLE-PHASE GLASS PASSIVATED
SILICON BRIDGE RECTIFIER**
VOLTAGE RANGE 1000 Volts CURRENT 35 Amperes

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
- * Superior thermal conductivity

MECHANICAL DATA

- * Case: Molded plastic case
- * Weight: About 6.7grams
- * AEC-Q101 Certified



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	RS3507MH-C-RL1	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1000	Volts
Maximum RMS Voltage	V_{RMS}	700	Volts
Maximum DC Blocking Voltage	V_{DC}	1000	Volts
Maximum Average Forward Rectified Current at $T_C = 85^\circ\text{C}$	I_O	35	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	400	Amps
Typical Current Squared Time	I^2t	660	A^2/S
Insulation voltage	Viso	2500	Volts
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	0.8	$^\circ\text{C}/\text{W}$
	$R_{\theta JA}$	18	
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to + 150	$^\circ\text{C}$

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

CHARACTERISTICS	SYMBOL	RS3507MH-C-RL1	UNITS
Maximum Instantaneous Forward Voltage at 12.5A DC	V_F	1.1	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ $T_A = 25^\circ\text{C}$	5.0	uAmps
	@ $T_A = 125^\circ\text{C}$	500	

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

2017-01
Rev:0

RATING AND CHARACTERISTICS CURVES (RS3507MH-C-RL1)

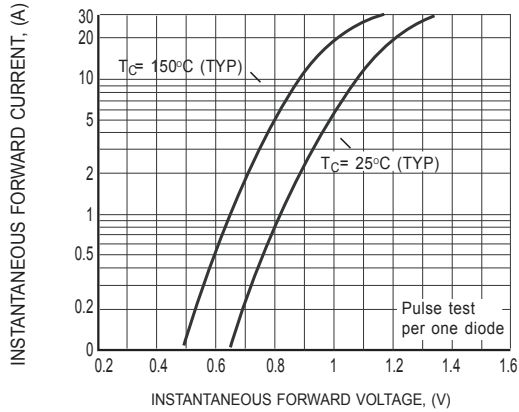


FIG.1 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

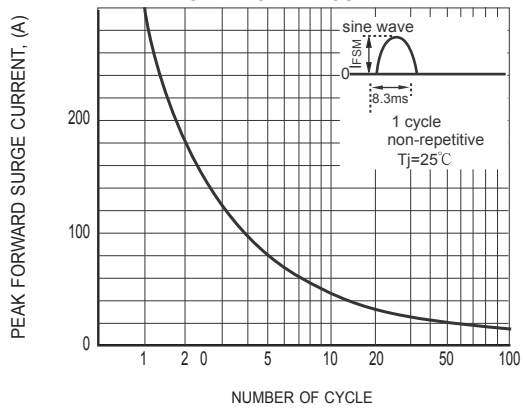


FIG.3 SURGE FORWARD CURRENT CAPABILITY

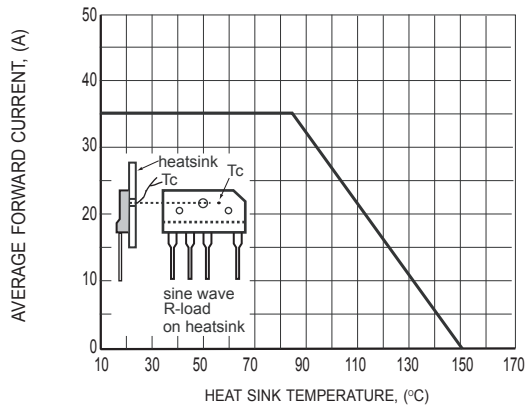


FIG.2 TYPICAL FORWARD CURRENT DERATING CURVE

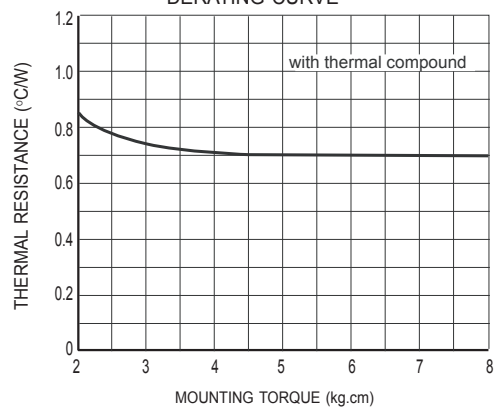


FIG.4 CONTACT THERMAL RESISTANCE fcf

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