

RS3505MH THRU RS3507MH

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 600 to 1000 Volts CURRENT 35 Amperes

FEATURES

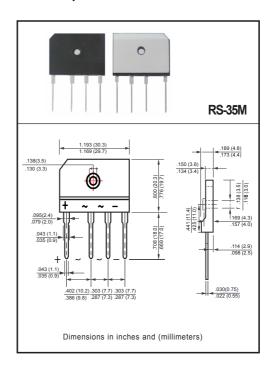
- * Low leakage
- * Low forward voltage
- * Surge overload rating: 400 amperes peak
- * Mounting position: Any
- * Ideal for printed circuit boards
- * High forward surge current capability
- * Superior thermal conductivity

MECHANICAL DATA

- * Case:Molded plastic case
- * Weight:About 6.7grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



$\textbf{MAXIMUM RATINGS} \ (@\ \texttt{TA=25}\ ^{\circ}\texttt{C}\ unless\ otherwise\ noted)$

RATINGS	SYMBOL	RS3505MH	RS3506MH	RS3507MH	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 = 85°C	Io	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	l ² t	660			A ² /S
Insulation voltage	Viso	2500			Volts
Maximum thermal resistance per leg (Note 1)	$R_{\theta JC}$	0.8			°C/W
Maximum thermal resistance per leg (Note 2)	R _{θ JA}	18			
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150			۰c

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

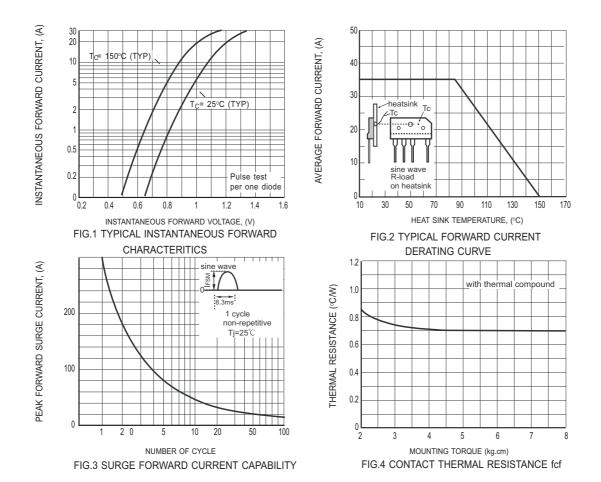
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CHARACTERISTICS		SYMBOL	RS3505MH	RS3506MH	RS3507MH	UNITS
Maximum Instantaneous Forward Volta	age at 17.5A DC	V _F	1.1		•	Volts
Maximum DC Reverse Current	C Reverse Current @TA = 25°C 5.0					
at Rated DC Blocking Voltage	@T _A = 125°C	i ik	500			uAmps

NOTES: 1. Junction to case with heatsink.

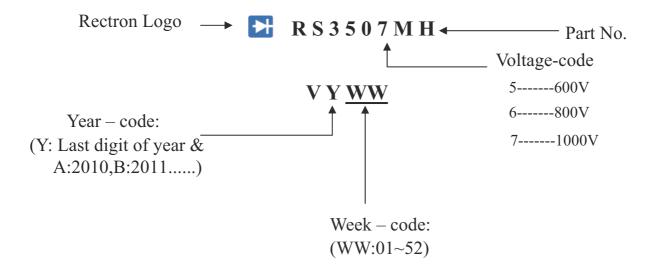
2. Junction to ambient without heatsink.

2024-07 REV:E

RATING AND CHARACTERISTICS CURVES (RS3505MH THRU RS3507MH)



Marking Description





PACKAGING OF DIODE AND BRIDGE RECTIFIERS

TUBE PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	WEIGHT(Kg)
RS-35M	-C	600	490*135*110	510*293*131	1,200	



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