RS401M THRU RS407M

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 4.0 Amperes

FEATURES

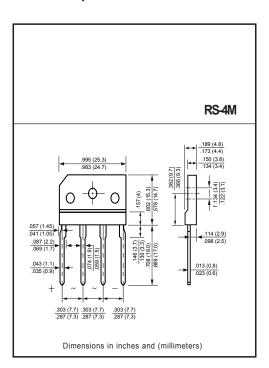
- * Ideal for printed circuit board
- * Surge overload rating: 130 amperes peak
- * Mounting position: Any

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * Epoxy: UL listed the recognized component,file #94233

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



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

RATINGS	SYMBOL	RS401M	RS402M	RS403M	RS404M	RS405M	RS406M	RS407M	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 $T_A = 50^{\circ}C$	I _O	4.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	130						Amps	
Current Squared Time	l² t	70					A ² S		
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	6.0							°C/W
Typical Thermal Resistance (Note 1)	R_{\thetaJA}	26							
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150						°C	

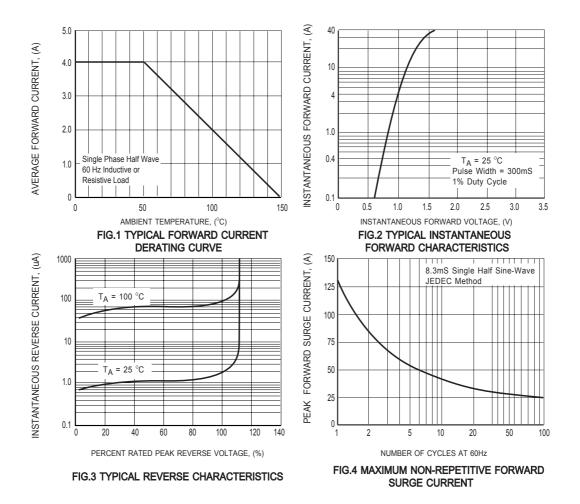
$\textbf{ELECTRICAL CHARACTERISTICS}(@T_A = 25 \ ^{\circ}\text{C unless otherwise noted})$

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CHARACTERISTI	SYMBOL	RS401M	RS402M	RS403M	RS404M	RS405M	RS406M	RS407M	UNITS	
Maximum Instantaneous Forward Vol	V _F	1.1						Volts		
Maximum DC Reverse Current	@T _A = 25°C	- I _R				5.0				
at Rated DC Blocking Voltage	@T _A = 100°C					100				uAmps

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

2007-10

RATING AND CHARACTERISTICS CURVES (RS401M THRU RS407M)



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