

FM4001L THRU FM4007L

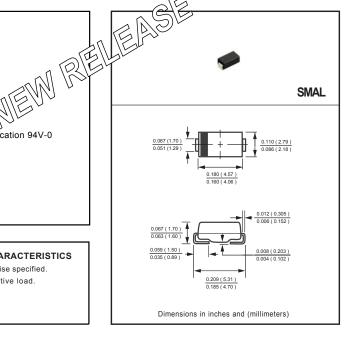
SURFACE MOUNT GLASS PASSIVATED SILICON RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

- * Glass passivated device
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.057 gram

MECHANICAL DATA

* Epoxy : Device has UL flammability classification 94V-0



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	FM4001L	FM4002L	FM4003L	FM4004L	FM4005L	FM4006L	FM4007L	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 Ambient Temperature	I _O	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30							Amps
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	80 85						°C/W	
Typical Thermal Resistance (Note 1)	R _{0JL}	26 30						°C/W	
Typical Junction Capacitance (Note 2)	CJ	15							pF
Operating Temperature Range	TJ	150						۰C	
Storage Temperature Range	T _{STG}	-55 to + 150						٥C	

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

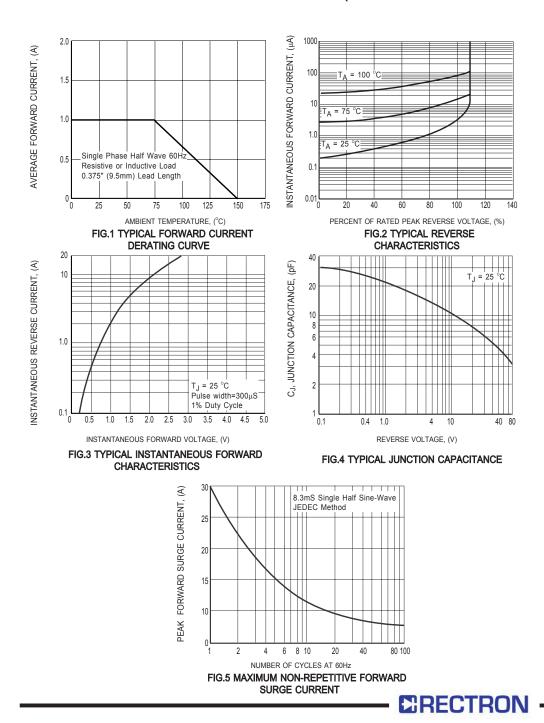
CHARACTERISTICS		SYMBOL	FM4001L	FM4002L	FM4003L	FM4004L	FM4005L	FM4006L	FM4007L	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC		V _F	1.1							Volts
Maximum Average Reverse Current	@T _A = 25°C	I _R				5.0				μА
at Rated DC Blocking Voltage	@T _A = 100°C					100				μА

NOTES: 1. Thermal Resistance: Mounted on PCB.

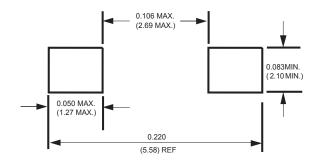
- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- 3. "Fully ROHS compliant","100% Sn plating (Pb-free)".

2006-11

RATING AND CHARACTERISTICS CURVES (FM4001L THRU FM4007L)



Mounting Pad Layout



Dimensions in inches and (millimeters)



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