

FM4001 THRU FM4007

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

FEATURES

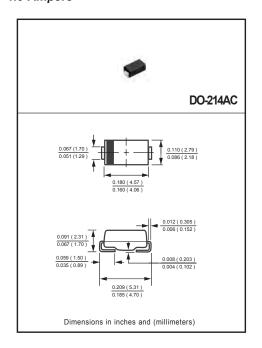
- * Glass passivated device
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.057 gram

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	FM4001	FM4002	FM4003	FM4004	FM4005	FM4006	FM4007	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						°C/W	
Typical Thermal Resistance (Note 1)	R _{0JL}	27 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)

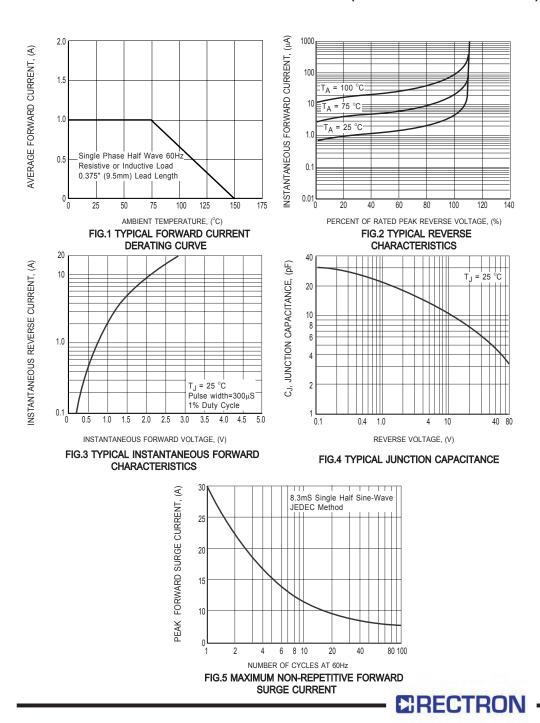
==== interval entrate interval entrate (entrate entrate interval)											
CHARACTERISTICS		SYMBOL	FM4001	FM4002	FM4003	FM4004	FM4005	FM4006	FM4007	UNITS	
Maximum Instantaneous Forward Voltage at 1.0A DC			1.1							Volts	
Maximum Average Reverse Current	@T _A = 25°C	I _R				5.0				μА	
at Rated DC Blocking Voltage	@T _A = 100°C					100				цΑ	

NOTES: 1. Thermal Resistance: Mounted on PCB.

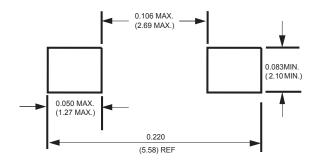
- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- 3. "Fully ROHS compliant","100% Sn plating (Pb-free)".

2008-10 REV: A

RATING AND CHARACTERISTICS CURVES (FM4001 THRU FM4007)



Mounting Pad Layout



Dimensions in inches and (millimeters)



DISCLAIMER NOTICE

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures.

