



## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 200 Volts CURRENT 2.0 Ampere

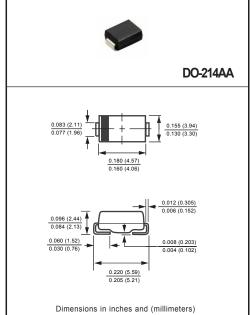
#### FEATURES

- \* Ideal for surface mounted applications
- \* Low leakage current
- \* Metallurgically bonded construction
- \* Mounting position: Any \* Weight: 0.098 gram
- Weight: 0.000 gram

### MECHANICAL DA TA

\* Epoxy: Device has UL flammability classification 94V-O

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	FM220	FM230	FM240	FM250	FM260	FM280	FM2100	FM2150	FM2200	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at Ambient Temperature	I <sub>0</sub>	2.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	60									Amps
Typical Thermal Resistance (Note 1)	R <sub>θJA</sub>	75									°C/W
Typical Thermal Resistance (Note 1)	RθJL	17									°C/W
Typical Junction Capacitance (Note 2)	CJ	130									pF
Operating Temperature Range	TJ	150									٥C
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150									٥C

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

CHARACTERISTICS		SYMBOL	FM220	FM230	FM240	FM250	FM260	FM280	FM2100	FM2150	FM2200	UNITS
Maximum Instantaneous Forward Voltage at 2.0A DC		VF		.55	.7		70	.85				Volts
Maximum Average Reverse Current	@T <sub>A</sub> = 25°C	1-	0.2									
at Rated DC Blocking Voltage	@T <sub>A</sub> = 100°C	IR	2									mA

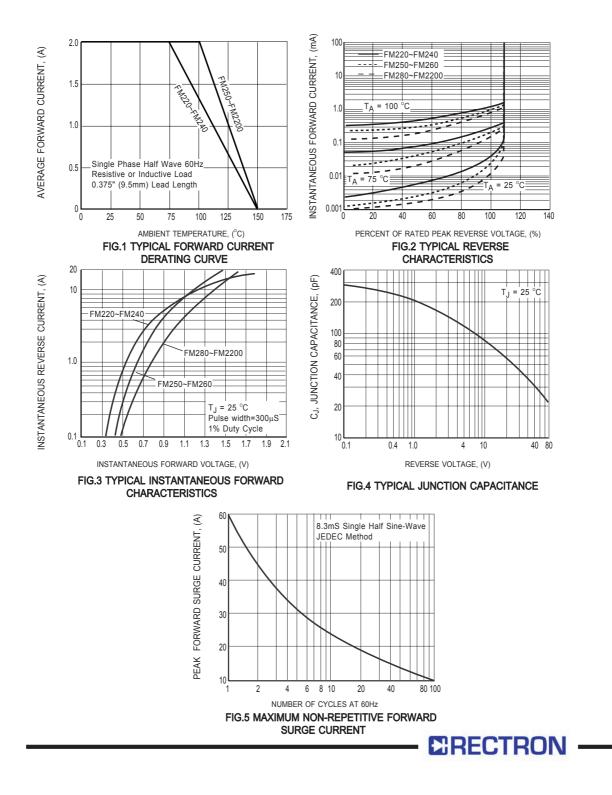
NOTES: 1. Thermal Resistance :Mounted on PCB.

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

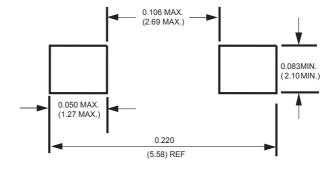
3. "Fully ROHS compliant","100% Sn plating (Pb-free)".

2006-11

## RATING AND CHARACTERISTICS CURVES (FM220 THRU FM2200)



# 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.

