

FM220 THRU FM2200

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 200 Volts CURRENT 2.0 Ampere

FEATURES

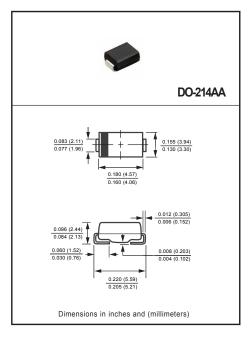
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.098 gram

MECHANICAL DATA

* 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 _{RRM}	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at Ambient Temperature	I _O	2.0							Amps		
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	60						Amps			
Typical Thermal Resistance (Note 1)	R _{0JA}	75						°C/W			
Typical Thermal Resistance (Note 1)	R _{0JL}	17						°C/W			
Typical Junction Capacitance (Note 2)	CJ	130						pF			
Operating Temperature Range	TJ	150						°C			
Storage Temperature Range	T _{STG}	-55 to + 150						٥C			

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

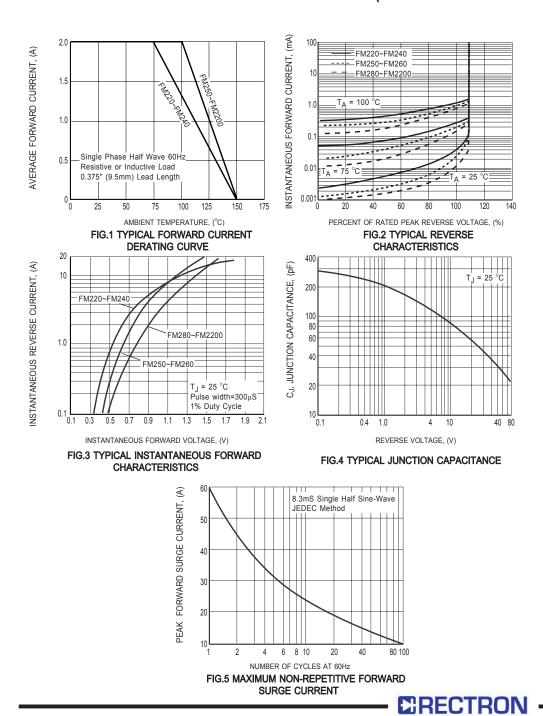
CHARACTERISTICS		SYMBOL	FM220 FM230 FM24	FM250 FM260	FM280 FM2100 FM2150 FM22	0 UNITS				
Maximum Instantaneous Forward Voltage at 2.0A DC		V _F	.55	.70	.85	Volts				
Maximum Average Reverse Current	@T _A = 25°C	L .	0.2							
at Rated DC Blocking Voltage	@T _A = 100°C	IR	2							

NOTES: 1. Thermal Resistance: Mounted on PCB.

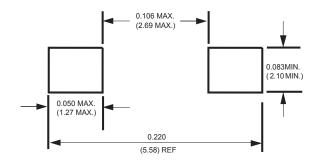
- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- 3. "Fully ROHS compliant","100% Sn plating (Pb-free)".

2006-11

RATING AND CHARACTERISTICS CURVES (FM220 THRU FM2200)



Mounting Pad Layout



Dimensions in inches and (millimeters)



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