





## SURFACE MOUNT SCHOTTKY **BARRIER RECTIFIER**

**VOLTAGE RANGE 20 to 200 Volts CURRENT 2.0 Amperes** 

#### **FEATURES**

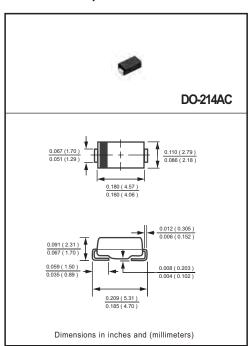
- \* Ideal for surface mounted applications \* Low leakage current
- \* Metallurgically bonded construction
- \* Mounting position: Any
- \* Weight: 0.057 gram

#### **MECHANICAL DATA**

\* Epoxy: Device has UL flammability classification 94V-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	FM220A	FM230A	FM240A	FM250A	FM260A	FM280A	FM2100A	FM2150A	FM2200A	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage		14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage		20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at Ambient Temperature	I <sub>O</sub>	2.0					Amps				
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	U I IESM I					Amps					
Typical Junction Capacitance (Note 2)	C <sub>J</sub> 130					pF					
Operating Temperature Range			150								٥C
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150					٥C				

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

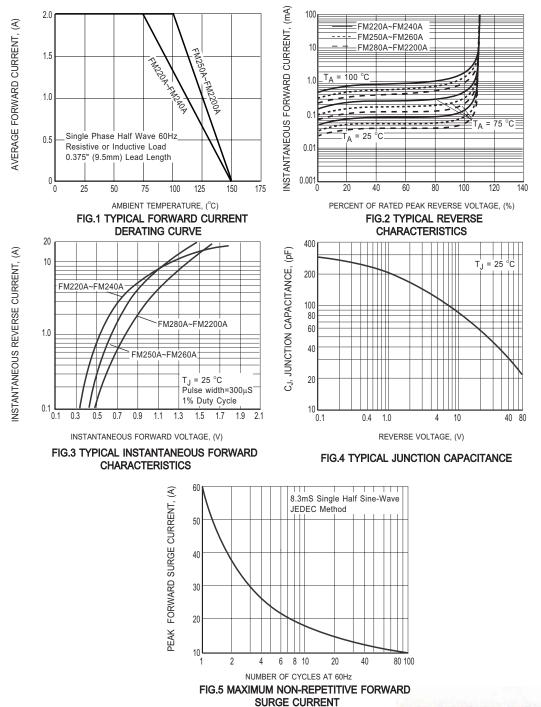
CHARACTERIS	SYMBOL	FM220A	FM230A	FM240A	FM250A	FM260A	FM280A	FM2100A	FM2150A	FM2200A	UNITS	
Maximum Instantaneous Forward Voltage	e at 2.0A DC	V <sub>F</sub>		.55			70			.85		Volts
Maximum Average Reverse Current	@T <sub>A</sub> = 25°C		0.2							mA		
at Rated DC Blocking Voltage	@T <sub>A</sub> = 100°C	IR.	2									mA

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

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

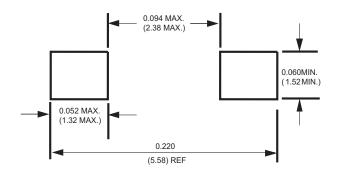
2012-5 REV. A

# RATING AND CHARACTERISTICS CURVES (FM220A THRU FM2200A)





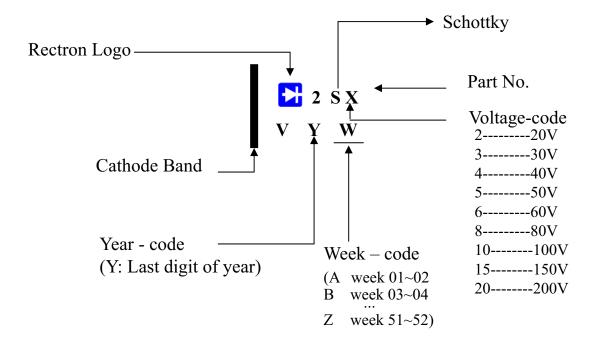
# **Mounting Pad Layout**



Dimensions in inches and (millimeters)



# **Marking Description**



# PACKAGING OF DIODE AND BRIDGE RECTIFIERS

# REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)		GROSS WEIGHT(Kg)
SMA	-T	1500			178	390*205*310	48,000	8.40
SMA	-W	5,000			330	355*360*350	80,000	14.20

### **DISCLAIMER NOTICE**

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