

# **FM220A THRU** FM2200A

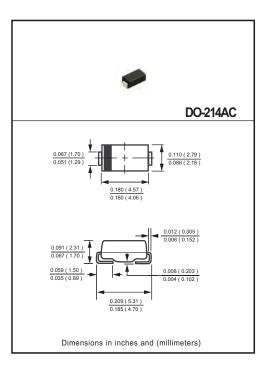
### SURFACE MOUNT SCHOTTKY **BARRIER RECTIFIER** VOLTAGE RANGE 20 to 200 Volts CURRENT 2.0 Ampere

#### **FEATURES**

- \* Ideal for surface mounted applications
- \* Low leakage current
- \* Metallurgically bonded construction
- \* Mounting position: Any
- \* P/N suffix V means AEC-Q101 qualified, e.g:FM220AV
- \* P/N suffix V means Halogen-free

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Resistive or inductive load.



#### MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

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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	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>O</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 Current Square Time	I <sup>2</sup> T	14.9								A <sup>2</sup> S	
Typical Thermal Resistance (Note 1)	R <sub>θJA</sub>	75								°C/W	
Typical Thermal Resistance (Note 1)	R <sub>θJL</sub>	17								°C/W	
Typical Junction Capacitance (Note 2)	CJ	130								pF	
Operating Temperature Range	TJ	-55 to + 150							٥C		
orage Temperature Range T <sub>STG</sub> -55 to + 150							٥C				

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

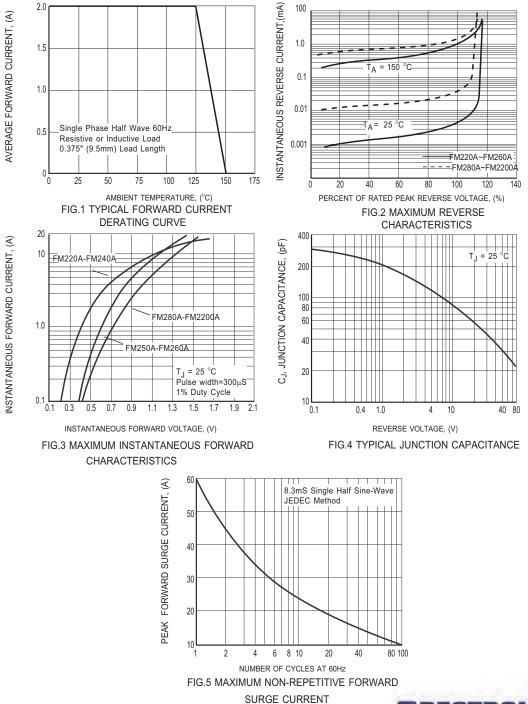
CHARACTERIS	SYMBOL	FM220A	FM230A	FM240A	FM250A	FM260A	FM280A	FM2100A FM215	OA FM2200A	UNITS	
Maximum Instantaneous Forward Voltage	V <sub>F</sub>		.50		.7	0		.85		Volts	
Maximum Average Reverse Current	@T <sub>A</sub> = 25°C	1-	60						5.0		uА
at Rated DC Blocking Voltage	@T <sub>A</sub> = 150°C	'R	10					1.0			mΑ
Maximum Reverse Recovery Time (Note	trr	10					nS				

NOTES: 1. Thermal Resistance: Mounted on PCB.

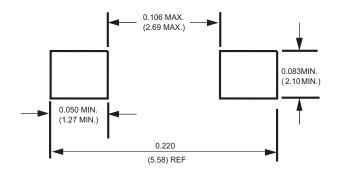
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. Test Conditions: IF= 0.5A, IR= -1.0A, IRR= -0.25A.

2018-10 REV: B

## RATING AND CHARACTERISTICS CURVES (FM220A THRU FM2200A)



# **Mounting Pad Layout**



Dimensions in inches and (millimeters)



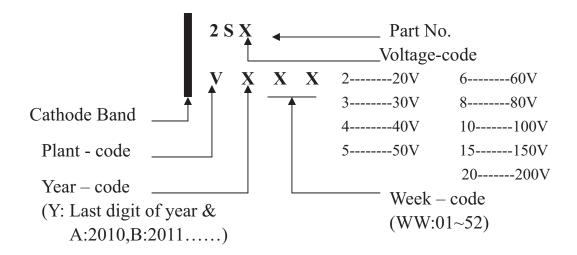


## Attachment information about FM2xxA

### 1. Internal Circuit



## 2. Marking on the body



# PACKAGING OF DIODE AND BRIDGE RECTIFIERS

#### REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SMA	-W	7,500	15,000			330	360*355*360	120,000	15.2

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SMA	-T	2,000	8,000			178	390*205*310	64,000	7.8

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