

# FM520 THRU FM5200

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

## VOLTAGE RANGE 20 to 200 Volts CURRENT 5.0 Ampere

#### **FEATURES**

- \* Ideal for surface mounted applications
- \* Low leakage current
- \* Metallurgically bonded construction
- \* Mounting position: Any
- \* Weight: 0.24 gram

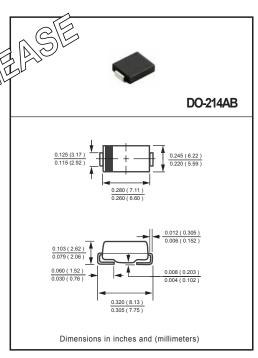
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#### **MECHANICAL DATA**

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

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25  $^{\circ}$ 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)

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RATINGS	SYMBOL	FM520	FM530	FM540	FM550	FM560	FM580	FM5100	FM5150	FM5200	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>	5.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	150									Amps
Typical Thermal Resistance (Note 1)	R <sub>θJA</sub>	55									°C/W
	RθJL	17									
Typical Junction Capacitance (Note 2)	CJ	200								pF	
Operating Temperature Range	TJ	150								°C	
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150								°C	

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

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CHARACTERISTICS		SYMBOL	FM520	FM530	FM540	FM550	FM560	FM580	FM5100	FM5150	FM5200	UNITS
Maximum Instantaneous Forward Voltage at 5.0A DC		VF	.55		.75		.85				Volts	
Maximum Average Reverse Current	@T <sub>A</sub> = 25°C	1-	0.2									mA
at Rated DC Blocking Voltage	@T <sub>A</sub> = 100°C	'R					2					mA

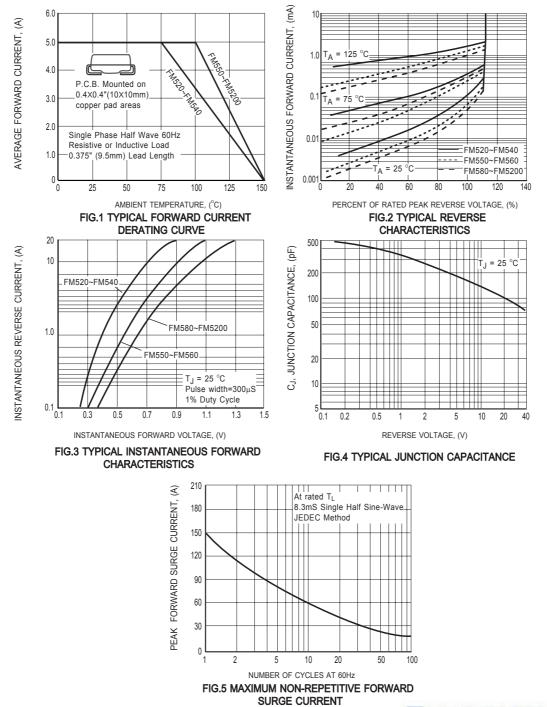
NOTES: 1. Thermal Resistance: Mounted on PCB.

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

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

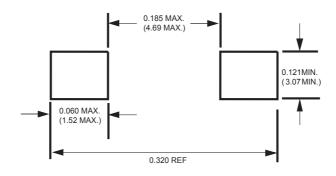
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# RATING AND CHARACTERISTICS CURVES (FM520 THRU FM5200)





# **Mounting Pad Layout**



Dimensions in inches and (millimeters)



### **DISCLAIMER NOTICE**

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