

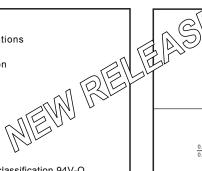
FM520 THRU FM5200

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

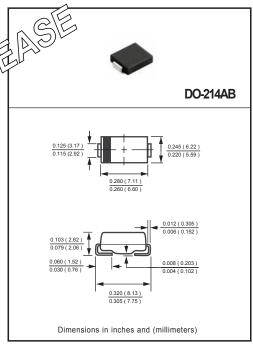


MECHANICAL DATA

* 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)

MAXIMUM RATINGS (@ TA=25 °C unless otherwise note	d)										
RATINGS	SYMBOL	FM520	FM530	FM540	FM550	FM560	FM580	FM5100	FM5150	FM5200	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	5.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150									Amps
Typical Thermal Resistance (Note 1)	R _{θJA}	55									°C/W
	RθJL	17									
Typical Junction Capacitance (Note 2)	CJ	200								pF	
Operating Temperature Range	TJ	150								٥C	
Storage Temperature Range	T _{STG}	-55 to + 150								°C	

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

ELECTRICAL CHARACTERIO HOS (WHA-25 O WHICES OWNER HOUSE)												
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 _A = 25°C	1-	0.2									mΑ
at Rated DC Blocking Voltage	@T _A = 100°C	'R					2					mΑ

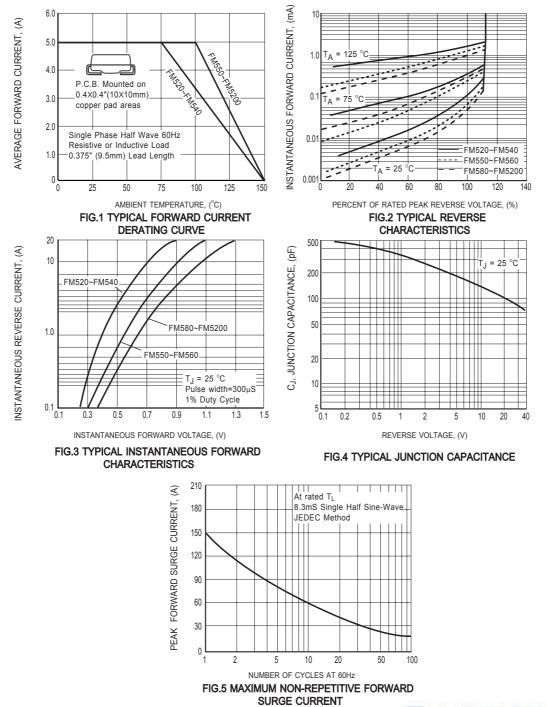
NOTES: 1. Thermal Resistance: Mounted on PCB.

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

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

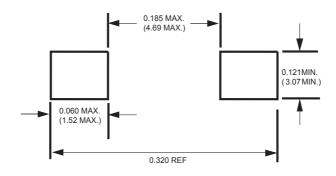
2006-11

RATING AND CHARACTERISTICS CURVES (FM520 THRU FM5200)





Mounting Pad Layout



Dimensions in inches and (millimeters)



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