

FM520 THRU FM560

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE 20 to 60 Volts CURRENT 5.0 Amperes

FEATURES

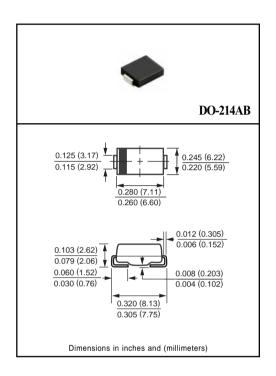
- * Fast switching
- * Low switching noise
- * Low forward voltage drop
- * High current capability
- * High switching capability
- * High reliability
- * High surge capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device hasUL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.24 gram

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 (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	FM520	FM530	FM540	FM550	FM560	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	Volts
Maximum RMS Voltage	VRMS	14	21	28	35	42	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	lo	5.0					
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	150					
Typical Thermal Resistance (Note 1)	RθJA	25					
Typical Junction Capacitance (Note 2)	CJ	200					
Operating Temperature Range	TJ	-55 to + 150					
Storage Temperature Range	Тѕтс	-55 to + 150					

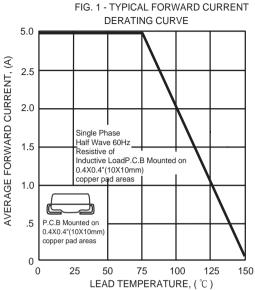
ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

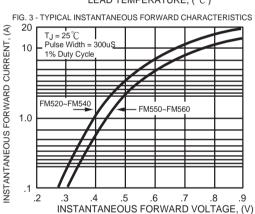
CHARACTERISTICS		SYMBOL	FM520	FM530	FM540	FM550	FM560	UNITS
Maximum Instantaneous Forward Voltage at 5.0A DC		VF	.55			.75		Volts
Maximum Average Reverse Current	@TA = 25°C	ln.	2.0					mAmps
at Rated DC Blocking Voltage	@Ta = 100°C	lR IR	20					mAmps

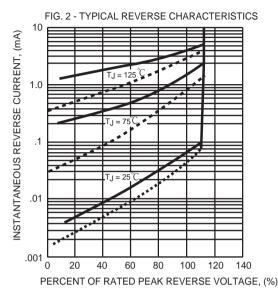
NOTES: 1. Thermal Resistance (Junction to Ambient): Vertical PC Board Mounting, 0.5" (12.7mm) Lead Length.

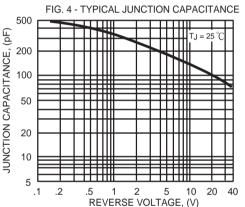
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

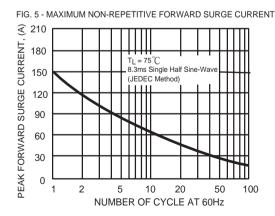
RATING AND CHARACTERISTIC CURVES (FM520 THRU FM560)





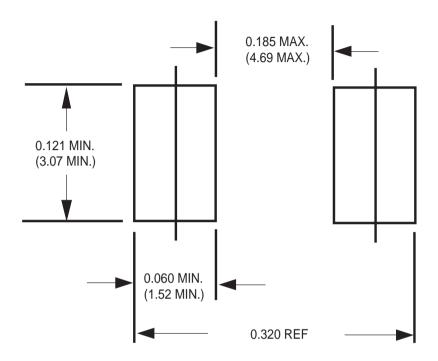








Mounting Pad Layout



Dimensions in inches and (millimeters)

