

FM290 THRU FM2100

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 90 to 100 Volts CURRENT 2.0 Ampere

FEATURES * Low switchin

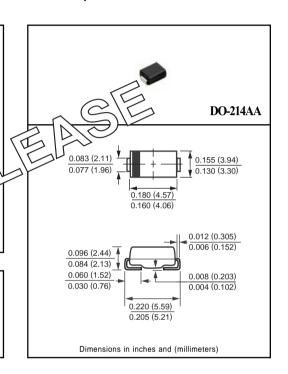
- * Low switching noise
- * Low forward voltage drop
- * High current capability
- * High switching capability
- * High surge capabitity
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification
- * Lead: MIL-STD-202E method 208C guarant
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.098 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	FM290	FM2100	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	90	100	Volts
Maximum RMS Voltage	VRMS	63	70	Volts
Maximum DC Blocking Voltage	VDC	90	100	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	Io	2.0		Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	75		Amps
Typical Thermal Resistance (Note 1)	RθJA	45		°C/W
Typical Junction Capacitance (Note 2)	CJ	200		pF
Operating Temperature Range	TJ	150		٥C
Storage Temperature Range	Tstg	-65 to + 150		°C

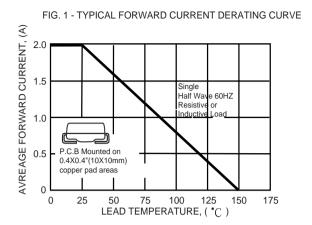
ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

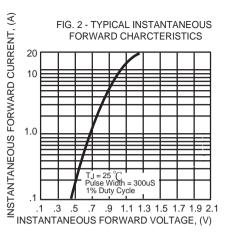
CHARACTERISTICS		SYMBOL	FM290	FM2100	UNITS
Maximum Instantaneous Forward Voltage at 2.0A DC		VF	.79		Volts
Maximum Average Reverse Current	@TA = 25°C	10	10		uA
at Rated DC Blocking Voltage	@TJ = 125°C	IR IR	4.0		mA

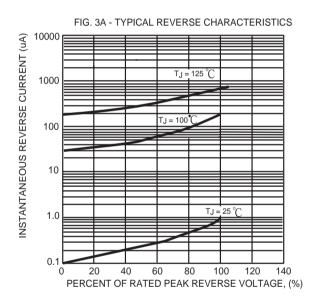
NOTES: 1. Thermal Resistance (Junction to Ambient): Vertical PC Board Mounting, 0.5" (12.7mm) Lead Length.

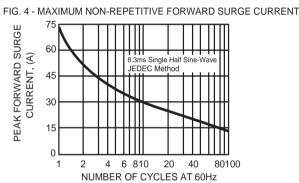
^{2.} Measured at 1 MHz and applied reverse voltage of 4.0 volts.

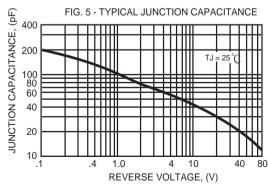
RATING AND CHARACTERISTIC CURVES (FM290 THRU FM2100)





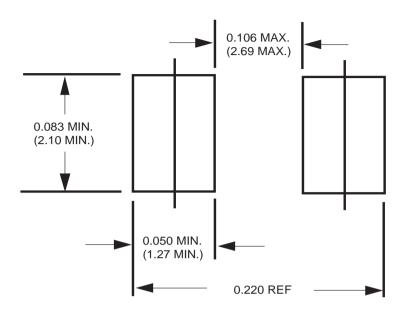








Mounting Pad Layout



Dimensions in inches and (millimeters)

