



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

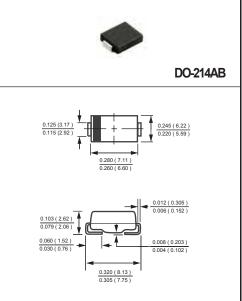
VOLTAGE RANGE 20 to 200 Volts CURRENT 5.0 Ampere

FEATURES

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

MECHANICAL DATA

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



Dimensions in inches and (millimeters)

REV: A

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) SYMBOL FM520 FM560 FM580 FM5100 FM5150 FM5200 UNITS FM530 FM540 FM550 RATINGS 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 20 30 40 80 150 200 Volts 50 60 100 $\mathsf{V}_{\mathsf{D}\mathsf{C}}$ Maximum Average Forward Rectified Current l_o 5.0 Amps at Ambient Temperature Peak Forward Surge Current 8.3 ms single half sine-wave 150 IFSM Amps superimposed on rated load (JEDEC method) Typical Current Square Time $I^2 T$ 93.3 A^2S R_{θJA} 55 Typical Thermal Resistance (Note 1) °C/W 17 R_{θJL} Typical Junction Capacitance (Note 2) C_J 200 рF ٥C 150 Operating Temperature Range T_J ٥C Storage Temperature Range -55 to + 150 TSTG

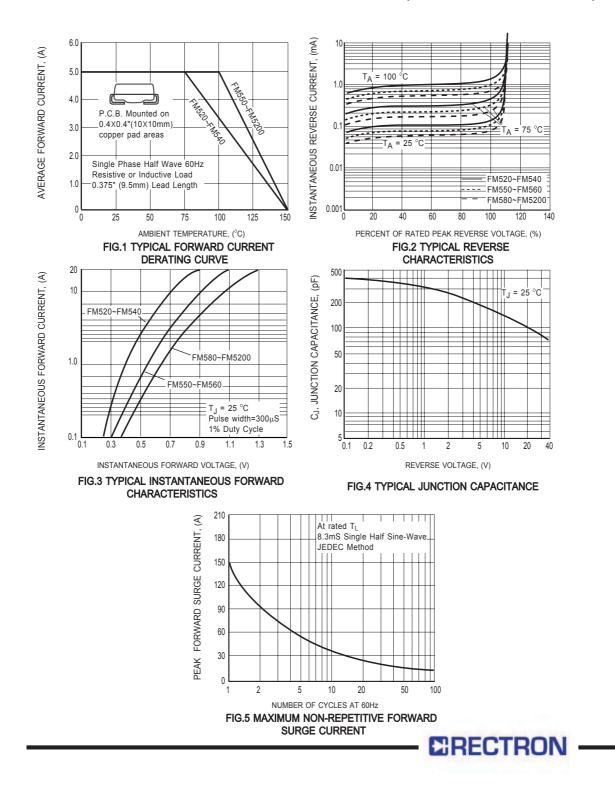
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

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CHARACTERISTICS	SYMBOL	FM520	FM530	FM540	FM550	FM560	FM580	FM5100	FM5150	FM5200	UNITS	
Maximum Instantaneous Forward Voltag	VF	.55			.75			.85			Volts	
Maximum Average Reverse Current	@T _A = 25°C		0.2								mA	
at Rated DC Blocking Voltage	@T _A = 100°C	IR IR	2								mA	
NOTES : 1. Thermal Resistance : Mounte	d on PCB.											2000-10

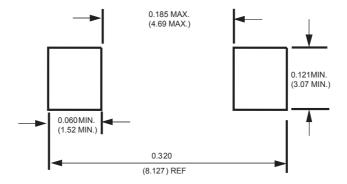
OTES : 1. Thermal Resistance : Mounted on PCB.

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

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



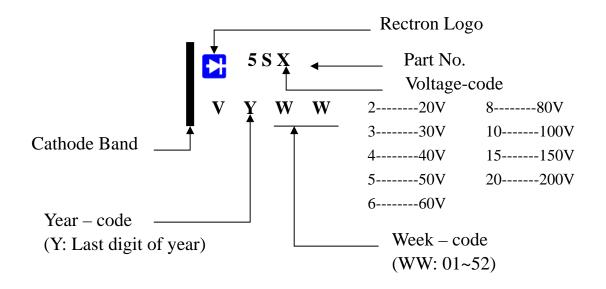
Mounting Pad Layout



Dimensions in inches and (millimeters)



Marking Description



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SMC	-T	500			176	390*205*310	12,000	6.65
SMC	-W	3,000			330	355*360*350	24,000	11.50

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