FM520 THRU FM5200

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 200 Volts CURRENT 5.0 Ampere

FEATURES

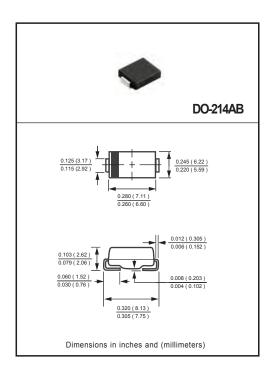
- * Ideal for surface mounted applications
- * Low leakage current
- * Mounting position: Any * Weight: 0.24 gram

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. Resistive or inductive load.



MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

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			
k Forward Surge Current 8.3 ms single half sine-wave erimposed on rated load (JEDEC method) 150					Amps						
Typical Current Square Time	cal Current Square Time I2T 93.3					A ² S					
Typical Thermal Resistance (Note 1)	R _{θJA}	55								°C/W	
Typical Thermal Nesistance (Note 1)	R _{θJL}	17									
Typical Junction Capacitance (Note 2)					200						pF
Operating Temperature Range	TJ	150							٥C		
Storage Temperature Range	Temperature Range T _{STG} -55 to + 150						۰C				

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

CHARACTERISTICS	SYMBOL	FM520	FM530	FM540	FM550	FM560	FM580	FM5100	FM5150	FM5200	UNITS	
Maximum Instantaneous Forward Voltage	e at 5.0A DC	V _F		.55		.7	75			.85		Volts
Maximum Average Reverse Current	@T _A = 25°C	-	0.2							mΑ		
at Rated DC Blocking Voltage	@T _A = 100°C	'R	2									mA

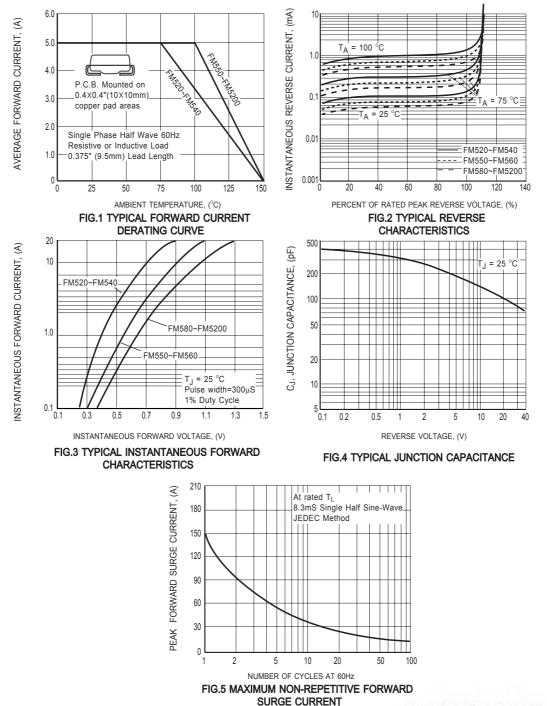
NOTES: 1. Thermal Resistance: Mounted on PCB.

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

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

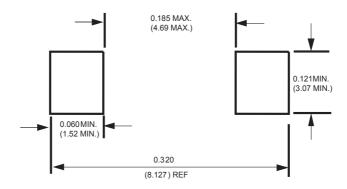
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RATING AND CHARACTERISTICS CURVES (FM520 THRU FM5200)





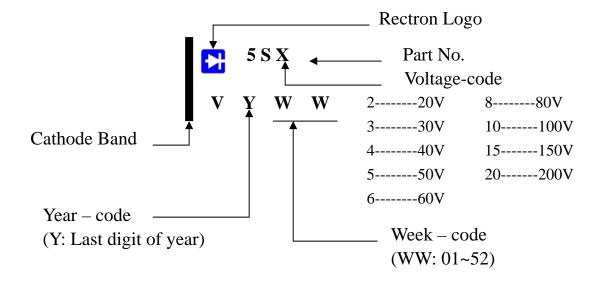
Mounting Pad Layout



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)		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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