

FM320 **THRU** FM3200

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 200 Volts CURRENT 3.0 Amperes

FEATURES

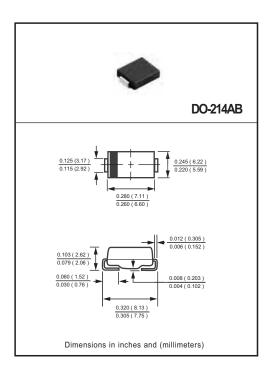
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
 * P/N suffix V means AEC-Q101 qualified, e.g:FM320V
- * Halogen-free

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * Mounting position: Any
- * Weight: 0.25 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified. Single phase, resistive or inductive load.



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

RATINGS	SYMBOL	FM320	FM330	FM340	FM350	FM360	FM380	FM3100	FM3150	FM3200	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		20	30	40	50	60	80	100	150	200	Volts
Max Avg Forword Rectify Current at Ambient Temp needs To be corrected to Lead Temperature,TL	Io	3.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	100								Amps	
cal Current Square Time I2T 41.5						A ² S					
Typical Thermal Resistance (Note 1)	RθJA	55									- °C/W
Typical Thermal Nesistance (Note 1)	R _{θJC}	38] -C/W	
	R _{θJL}	17									
Typical Junction Capacitance (Note 2)		200							pF		
Operating Temperature Range		-55 to + 150								٥C	
Storage Temperature Range	T _{STG}	-55 to + 150							۰C		

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

CHARACTERISTICS	SYMBOL	FM320	FM330	FM340	FM350	FM360	FM380	FM3100	FM3150	FM3200	UNITS
Maximum Instantaneous Forward Voltag	V _F		.55		.75			.83			Volts
Maximum Average Reverse Current	@T _A = 25°C	1-	60				2.0				u A
at Rated DC Blocking Voltage	@T _A = 150°C	IR	4.0				0.2				mA
Maximum Reverse Recovery Time (Note 3)			6						nSec		

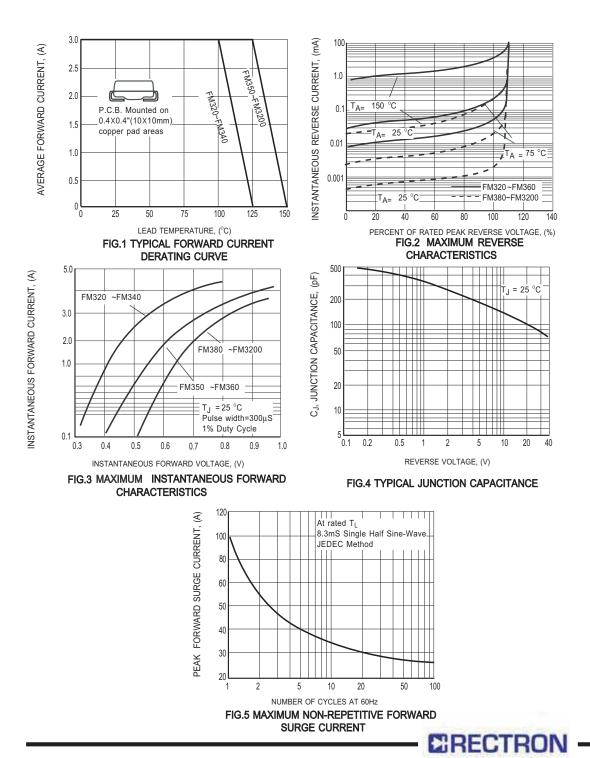
NOTES: 1. Thermal Resistance: Mounted on PCB.

- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- 3. Test Conditions: IF= 0.5A, IR= -1.0A, IRR= -0.25A.

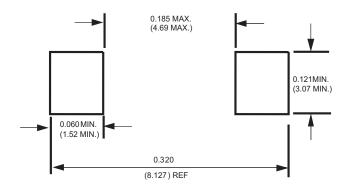
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RATING AND CHARACTERISTICS CURVES (FM320 THRU FM3200)



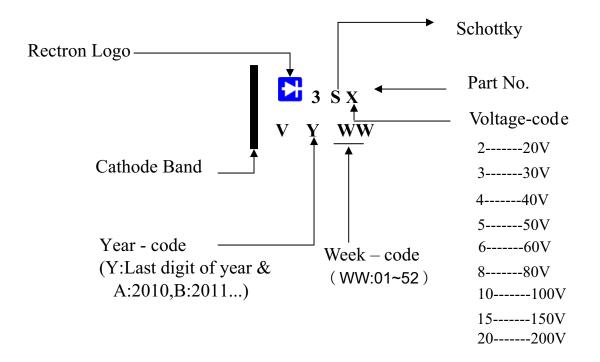
Mounting Pad Layout



Dimensions in inches and (millimeters)



Marking Description





PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SMC	-W/-T	3,000	3,000			330	360*355*360	24,000	11.50

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