

FM520B THRU FM5200B

SURFACE MOUNT SCHOTTKY **BARRIER RECTIFIER**

VOLTAGE RANGE 20 to 200 Volts CURRENT 5.0 Ampere

FEATURES

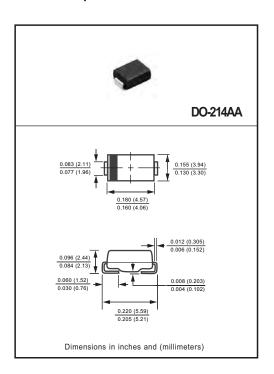
- * Ideal for surface mounted applications
- * Low leakage current
- * P/N suffix V means AEC-Q101 qualified, e.g:FM520BV
- * P/N suffix V means Halogen-free

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * Mounting position: Any
- * Weight: 0.24 gram

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)

RATINGS		FM520B	FM530B	FM540B	FM550B	FM560B	FM580B	FM5100B	FM5150B	FM5200B	UNITS
Maximum Recurrent Peak Reverse Voltage		20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage		14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage		20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at Ambient Temperature								Amps			
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	I _{FSM} 120						Amps			
Typical Current Square Time	I ² T 59.76						A ² S				
Typical Thermal Resistance (Note 1)	R _{θJA}	55								°C/W	
Typical Thermal Nesistance (Note 1)	R _{θJL}	17									
pical Junction Capacitance (Note 2)			200								pF
Operating Temperature Range	TJ	-55 to + 150							٥C		
Storage Temperature Range	T _{STG}	-55 to + 150							٥C		

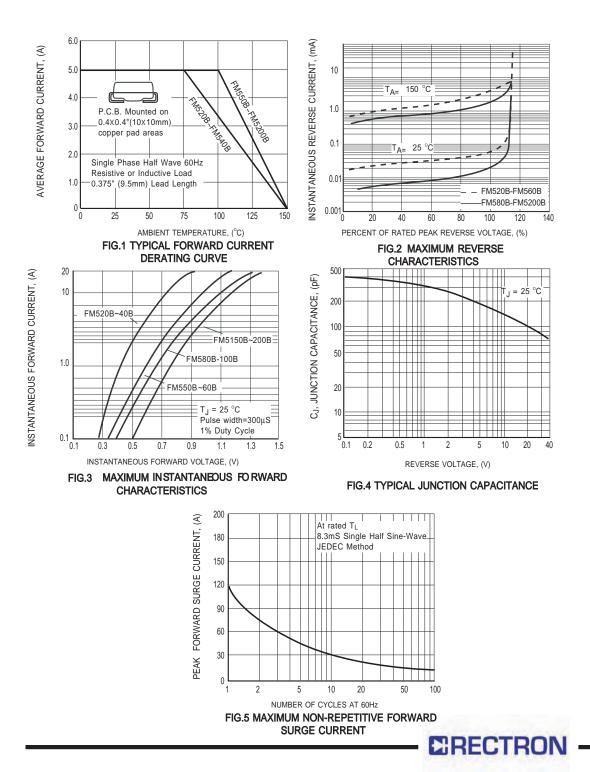
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERISTICS			FM520B	FM530B	FM540B	FM550B	FM560B	FM580B	FM5100B	FM5150B	FM5200B	UNITS
Maximum Instantaneous Forward Voltage at 5.0A DC				.55		.75		.85		.95		Volts
Maximum Average Reverse Current	@T _A = 25°C		60			20				uА		
at Rated DC Blocking Voltage	@T _A = 150°C	ir.	4.0				2.0				mΑ	

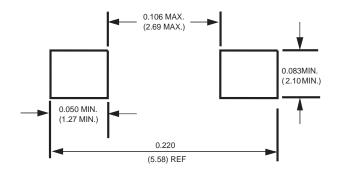
- NOTES: 1. Thermal Resistance: Mounted on PCB.
 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
 - 3. "RoHS compliant".

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RATING AND CHARACTERISTICS CURVES (FM520B THRU FM5200B)



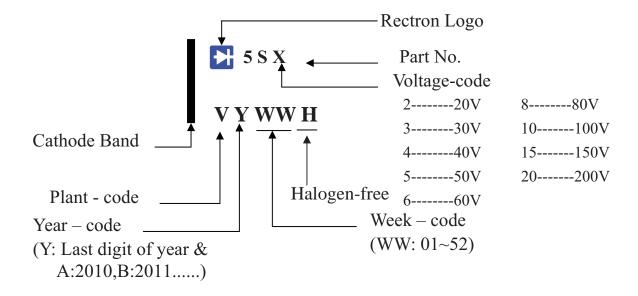
Mounting Pad Layout



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)
SMB	-W/-T	3,000	6,000			330	360*355*360	48,000	13.90

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