



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

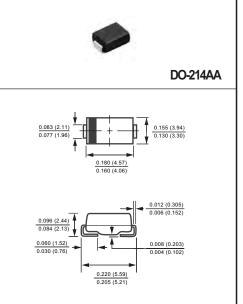
* Epoxy: Device has UL flammability classification 94V-O

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified.

* Mounting position: Any

Resistive or inductive load.

* Weight: 0.24 gram



Dimensions in inches and (millimeters)

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

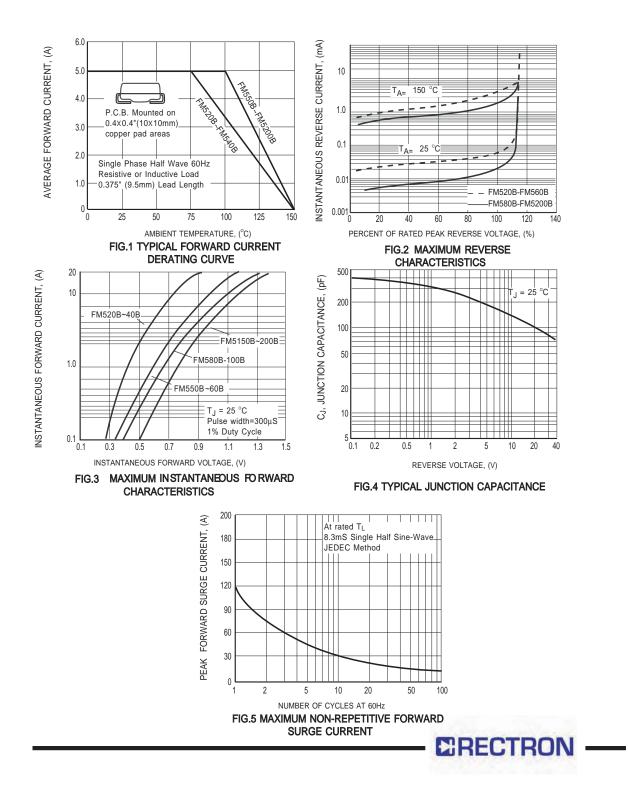
RATINGS	SYMBOL	FM520B	FM530B	FM540B	FM550B	FM560B	FM580B	FM5100B	FM5150B	FM5200B	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at Ambient Temperature	Ι _ο					5.0					Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) 120											
cal Current Square Time I2T 59.76						A ² S					
Typical Thermal Resistance (Note 1)	Rθja	55								°C/W	
	R _{θJL}	17									
Typical Junction Capacitance (Note 2)	CJ	200								pF	
Operating Temperature Range	TJ	-55 to + 150								0 C	
Storage Temperature Range	T _{STG}	-55 to + 150							٥C		

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

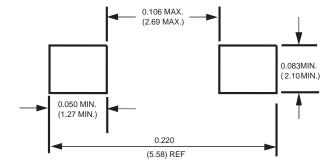
10			<u> </u>									
CHARACTERISTICS	SYMBOL	FM520B	FM530B	FM540B	FM550B	FM560B	FM580B	FM5100B	FM5150B	FM5200B	UNITS	
Maximum Instantaneous Forward Voltage	VF		.55		.75		.85 .95				Volts	
Maximum Average Reverse Current	@T _A = 25°C	-	60				20				uА	
at Rated DC Blocking Voltage	@T _A = 150°C		4.0				2.0				mA	

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

2023-11 REV:H



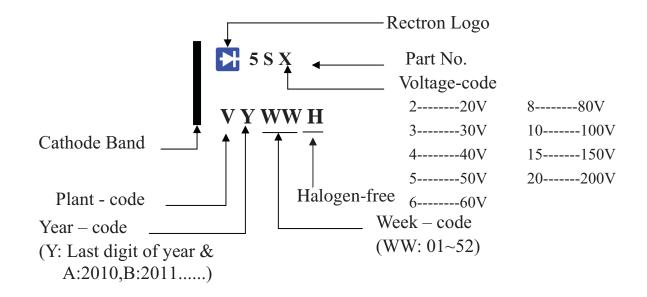
Mounting Pad Layout



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

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