



SURFACE MOUNT

GLASS PASSIVATED SILICON RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Amperes

FEATURES

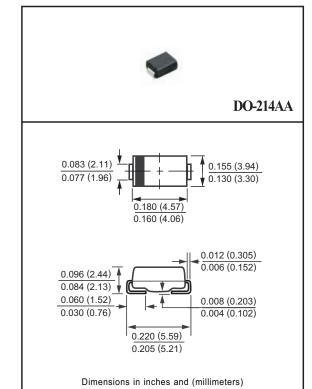
- * Glass passivated device
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.098 gram
- * P/N suffix V means AEC-Q101 qualified, e.g:FM201V
- * P/N suffix V means Halogen-free

MECHANICAL DATA

* Epoxy : Device has UL flammability classification 94V-0

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



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

RATINGS	SYMBOL	FM201	FM202	FM203	FM204	FM205	FM206	FM207	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 75°C	lo		2.0						Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	60					Amps		
Typical Current Squared Time	I ² T	15					A ² S		
Typical Thermaesistance	(Note 2)RθJL	20							°C/W
i ypical memaesistance	(Note 3)R _{0JA}	50							°C/W
Typical Junction Capacitance (Note 1)	1) CJ 30				рF				
Operating and Storage Temperature Range	TJ,TSTG	-65 to + 175						° C	

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

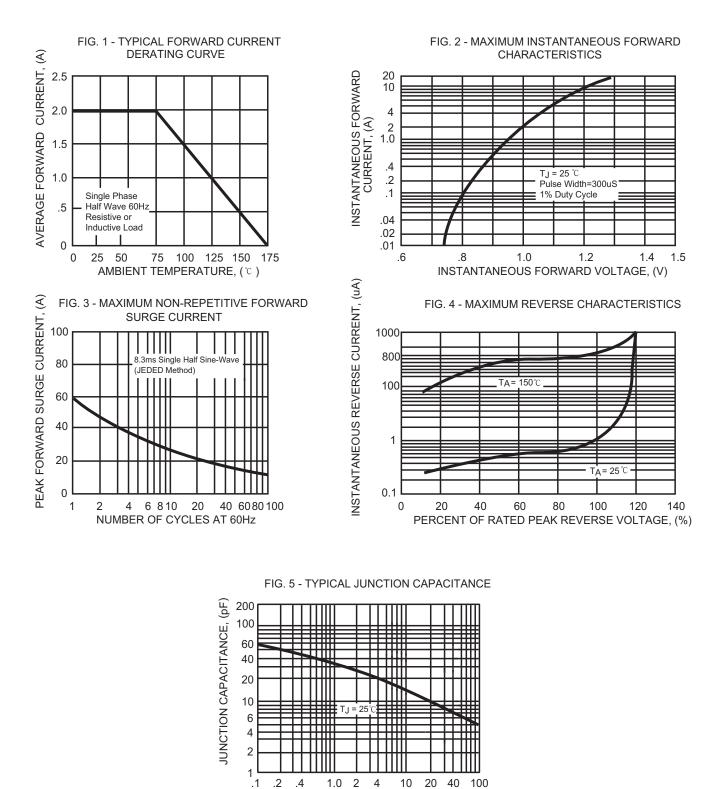
CHARACTERISTICS	SYMBOL	FM201	FM202	FM203	FM204	FM205	FM206	FM207	UNITS	
Maximum Instantaneous Forward Voltage at 2.0A	VF	1.0						Volts		
Maximum Average Reverse Current	@Ta = 25°C	IR	1.0						uAmps	
at Rated DC Blocking Voltage	@Ta = 150°C	IK	800							uAmps

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

2. Thermal resistance junction to terminal, 5X5mm² copper pads to each terminal.

3. Thermal resistance junction to ambient, 5X5mm² copper pads to each terminal.

RATING AND CHARACTERISTIC CURVES(FM201 THRU FM207)

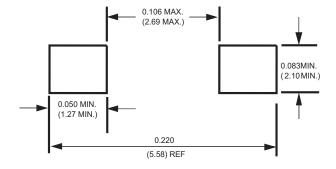


REVERSE VOLTAGE, (V)

RECTRON

Downloaded from Arrow.com.

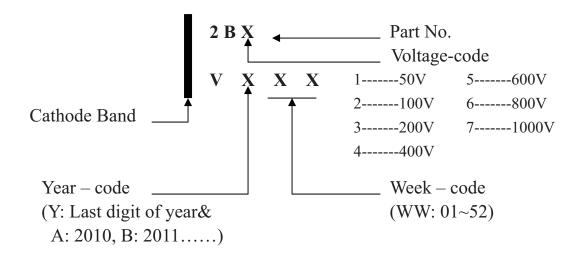
Mounting Pad Layout



Dimensions in inches and (millimeters)



Marking Description



CRECTRON —

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	-T	500	2,000			178	390*205*310	16,000	
SMB	-W	3,000	6,000			330	360*355*360	48,000	13.90

DISCLAIMER NOTICE

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures.

