

FM201 THRU **FM207**

SURFACE MOUNT

GLASS PASSIVATED SILICON RECTIFIER **VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Amperes**

FEATURES

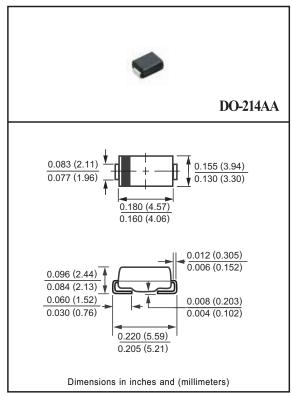
- * Glass passivated device
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.098 gram
- * P/N suffix V means AEC-Q101 qualified, e.g:FM201V
- * P/N suffix V means Halogen-free

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	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	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)	lfsm	60						Amps	
Typical Current Squared Time	I ² T	15							A ² S
Typical Thermaesistance	(Note 2)RθJL	20							°C/W
Typical Thermaesistance	(Note 3)RθJA	50							°C/W
Typical Junction Capacitance (Note 1)	Capacitance (Note 1) CJ 30						pF		
Operating and Storage Temperature Range	TJ,TSTG	-65 to + 175						٥C	

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

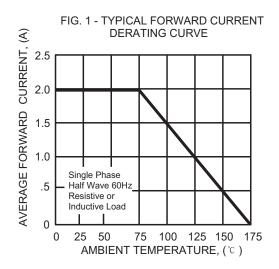
CHARACTERISTICS	SYMBOL	FM201	FM202	FM203	FM204	FM205	FM206	FM207	UNITS
Maximum Instantaneous Forward Voltage at 2	VF	1.0						Volts	
Maximum Average Reverse Current	@TA = 25°C	ln.	1.0						uAmps
at Rated DC Blocking Voltage	@TA = 150°C	- IR	800						uAmps

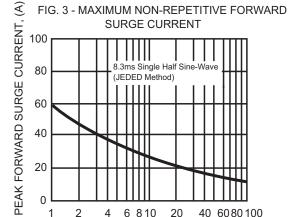
NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

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

2018-08

RATING AND CHARACTERISTIC CURVES (FM201 THRU FM207)



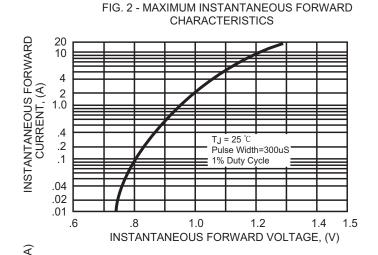


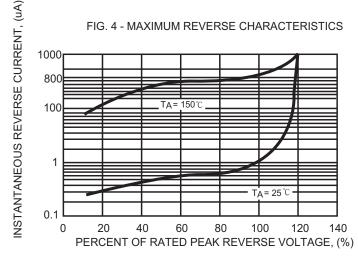
6 8 1 0

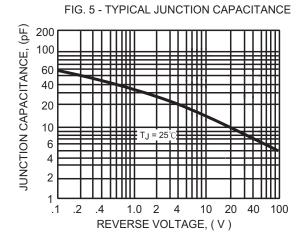
NUMBER OF CYCLES AT 60Hz

20

0 1

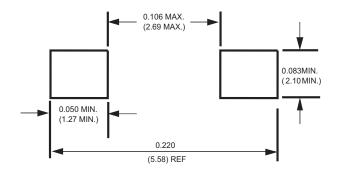








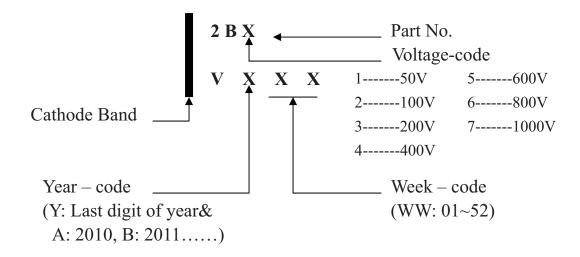
Mounting Pad Layout



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

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