



SURFACE MOUNT GLASS PASSIVATED FAST RECOVERY 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
- * 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	FFM201	FFM202	FFM203	FFM204	FFM205	FFM206	FFM207	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 = 55°C	lo		2.0						Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	70				Amps			
Typical Current Squared Time	I ² T	20.33			A ² S				
	(Note 2) RθJL		20					°C/W	
Maximum Thermal Resistance	(Note 3) RθJA	60					°C/W		
Typical Junction Capacitance (Note 1)	CJ	50			pF				
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150			٥C				

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

CHARACTERISTICS		SYMBOL	FFM201	FFM202	FFM203	FFM204	FFM205	FFM206	FFM207	UNITS
Maximum Forward Voltage at 2.0A DC VF			1.3					Volts		
Maximum Full Load Reverse Current, Full cycle Average at TA=55°C				20			uAmps			
Maximum DC Reverse Current at @TA = 25°C		IR	2.0			uAmps				
Rated DC Blocking Voltage	@TA = 150°C]	2.0			mAmps				
Maximum Reverse Recovery Time (Note 4)		trr		1	50		250	5	00	nSec

NOTES : 1. Measured at 1.0 MHz and applied average voltage of 4.0VDC

2. Thermal resistance junction to terminal 6.0mm² copper pads to each terminal.

3. Thermal resistance junction to ambient, 6.0mm² copper pads to each terminal.

4. Test Conditions: IF = 0.5A, IR = -1.0A, IRR = -0.25A

2018-01 REV:D

RATING AND CHARACTERISTIC CURVES (FFM201 THRU FFM207)



FIG. 5 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



RECTRON

Mounting Pad Layout



Dimensions in inches and (millimeters)



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



Attachment information about FFM20X

1. Internal Circuit



2. Marking on the body





Attachment information about FFM20X

3. Items marked on the reel box and carton

3.1 On the reel (for –T & -W) CUSTOMER TYPE QUANTITY LOT NO. Q.A. REMARK **3.2** On the box (for –T & -W) TYPE QUANTITY LOT NO. **Q.A.** 3.3 On the carton **CUSTOMER** TYPE **QUANTITY** LOT NO. REMARK

1. BOX



Packing	L	W	Н
Code	(mm)	(mm)	(mm)
-T	182	182	68
-W	338	338	40

2. REEL



3. CARTON



Packing	L	W	Н
Code	(mm)	(mm)	(mm)
-T	390	205	310
-W	360	355	360

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.



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Rectifiers category:

Click to view products by Rectron manufacturer:

Other Similar products are found below :

 70HFR40
 RL252-TP
 150KR30A
 1N5397
 NTE5841
 NTE6038
 SCF5000
 1N4002G
 1N4005-TR
 JANS1N6640US
 481235F

 RRE02VS6SGTR
 067907F
 MS306
 70HF40
 T85HFL60S02
 US2JFL-TP
 A1N5404G-G
 CRS04(T5L,TEMQ)
 ACGRA4007-HF

 ACGRB207-HF
 CLH03(TE16L,Q)
 ACGRC307-HF
 ACEFC304-HF
 NTE6356
 NTE6359
 NTE6002
 NTE6023
 NTE6077

 85HFR60
 40HFR60
 70HF120
 85HFR80
 D126A45C
 SCF7500
 D251N08B
 SCHJ22.5K
 SM100
 SCPA2
 SCH10000
 SDHD5K
 VS

 12FL100S10
 ACGRA4001-HF
 D1821SH45T
 PR
 D1251S45T
 NTE6358
 NTE6162
 NTE5850