

FFM1000W THRU FFM1800W

FAST RECOVERY RECTIFIER

VOLTAGE RANGE 1000 to 1800 Volts CURRENT 0.5 Ampere

FEATURES

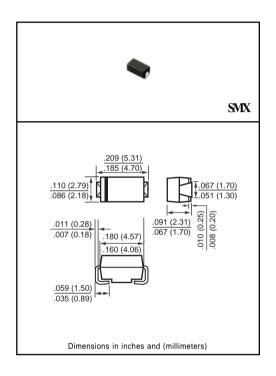
- * Fast switching
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * High currenf surge
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at $25\,^{\circ}\text{C}$ 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)

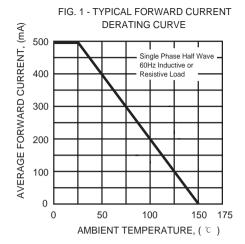
RATINGS	SYMBOL	FFM1000W	FFM1200W	FFM1400W	FFM1500W	FFM1600W	FFM1800W	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	1000	1200	1400	1500	1600	1800	Volts
Maximum RMS Voltage	VRMS	700	840	980	1050	1120	1260	Volts
Maximum DC Blocking Voltage	VDC	1000	1200	1400	1500	1600	1800	Volts
Maximum Average Forward Rectified Current at TA = 25°C	lo	0.5						Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	25					Amps	
Typical Junction Capacitance (Note 2)	CJ	15						pF
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150						٥C

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

CHARACTERISTICS	SYMBOL	FFM1000W FFM1200W FFM1400W FFM1500W FFM1600W FFM1800W	UNITS				
Maximum Instantaneous Forward Voltage at 0.5A DC	VF	1.8					
Maximum DC Reverse Current at Rated DC Blocking Voltage TA = 25°C	la la	5.0					
Maximum Full Load Reverse Current Full Cycle Average, .375" (9.5mm) lead length at TL = 55°C	− IR	100					
Maximum Reverse Recovery Time (Note 1)	trr	300	nSec				

NOTES: 1. Reverse Recovery Test Conditions: IF = 0.5A, IR = -1.0A, IRR =- 0.25A

RATING AND CHARACTERISTIC CURVES (FFM1000W THRU FFM1800W)



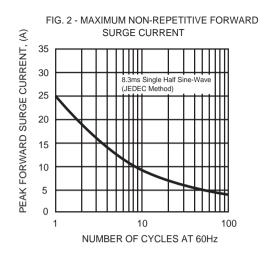
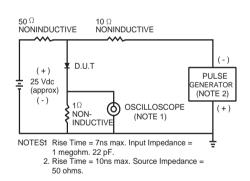
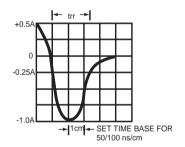


FIG. 3 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC





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Rectron: FFM1600W-W