



## **FAST RECOVERY RECTIFIER**

# **VOLTAGE 1600 Volts CURRENT 0.5 Ampere**

## **FEATURES**

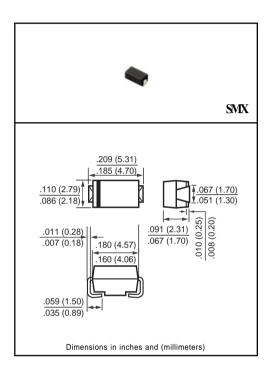
- \* Fast switching
- \* Low leakage
- \* Low forward voltage drop
- \* High current capability
- \* High currenf surge
- \* High reliability

#### **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 °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)

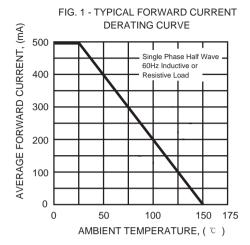
RATINGS	SYMBOL	FFM1600W	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	1600	Volts
Maximum RMS Voltage	VRMS	1120	Volts
Maximum DC Blocking Voltage	VDC	1600	Volts
Maximum Average Forward Rectified Current at TA = 25°C	Io	0.5	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	25	Amps
Typical Junction Capacitance (Note 2)	CJ	15	pF
Operating and Storage Temperature Range	TJ, TSTG	-65 to + 150	°C

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

CHARACTERISTICS	SYMBOL	FFM1600W	UNITS
Maximum Instantaneous Forward Voltage at 0.5A DC	VF	1.8	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage TA = 25°C		5.0	uAmps
Maximum Full Load Reverse Current Full Cycle Average, .375" (9.5mm) lead length at TL = 55°C	IR	100	uAmps
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 (FFM1600W)



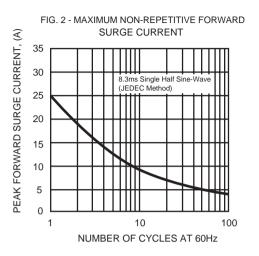


FIG. 3 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

