



## **GLASS PASSIVATED SUPER FAST RECTIFIER**

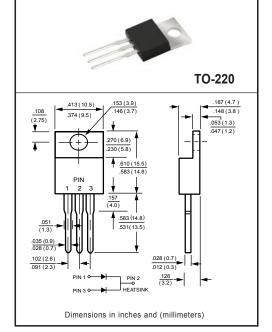
VOLTAGE 200 Volts CURRENT 10 Ampere

#### **FEATURES**

- \* Low switching noise
- \* Low forward voltage drop
- \* Low thermal resistance
- \* High current capability \* Super fast switching speed
- \* High reliability
- \* Good for switching mode circuit

### **MECHANICAL DATA**

- \* Case: TO-220 molded plastic
- \* Epoxy: Device has UL flammability classification 94V-O
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any
- \* Weight: 2.24 grams



## 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 (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	SF104C	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	200	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	140	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	200	Volts
Maximum Average Forward Rectified Current at T <sub>C</sub> = 125°C	lo	10.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	150	Amps
Typical Thermal Resistance (Note 4)	R <sub>0JA</sub>	15	0.0.000
	R <sub>θJC</sub>	3	°C/W
Typical Junction Capacitance (Note 2)	CJ	50	pF
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150	° C

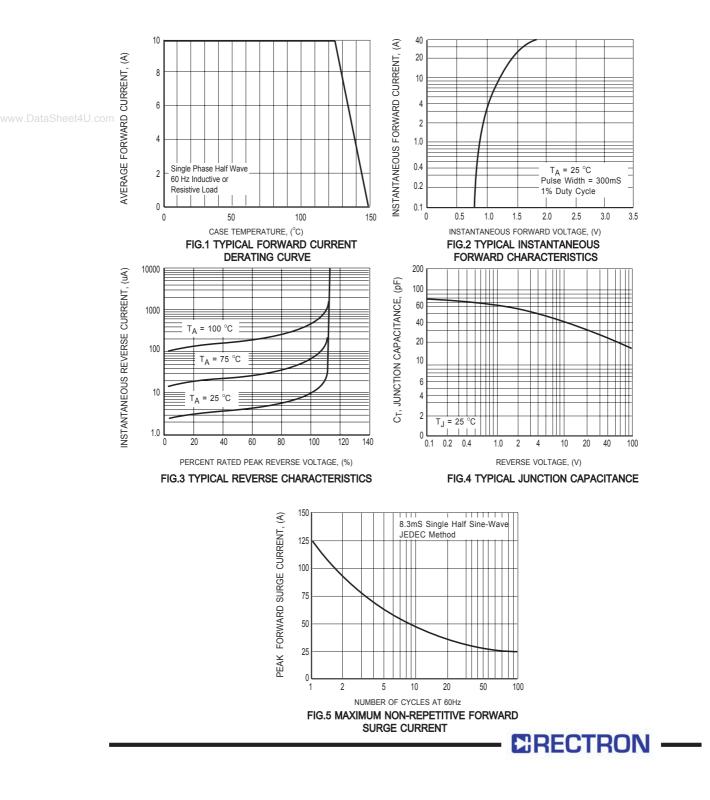
### ELECTRICAL CHARACTERISTICS(@T<sub>A</sub>=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	SF104C	UNITS
Maximum Instantaneous Forward Voltage at 5.0A DC		VF	1.0	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C	- I <sub>R</sub>	10	uAmps
	@T <sub>A</sub> = 100°C		500	
Maximum Reverse Recovery Time (Note 1)		trr	35	nSec
NOTES: 1. Test Conditions: IF = 0.5A, IR = -1.0A, IRR = -0.25A				

NOTES : 1. Test Conditions: I<sub>F</sub> = 0.5A, I<sub>R</sub> = -1.0A, I<sub>RR</sub> = -0.25A 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts. 3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

4. Thermal Resistance : Heat-sink mounted.





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