

**GLASS PASSIVATED SUPER FAST RECTIFIER**

**VOLTAGE RANGE 50 to 400 Volts CURRENT 16 Amperes**

**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**

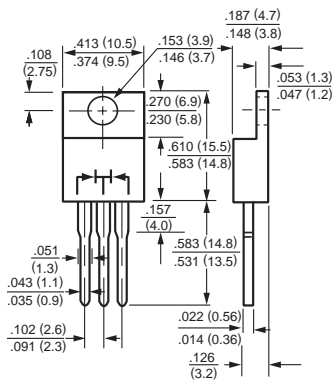
- \* Case: TO-220 molded plastic
- \* Epoxy: Device has UL flammability classification 94V-O
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any
- \* Weight: 2.24 grams

**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%.



**TO-220**



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS** (At TA = 25°C unless otherwise noted)

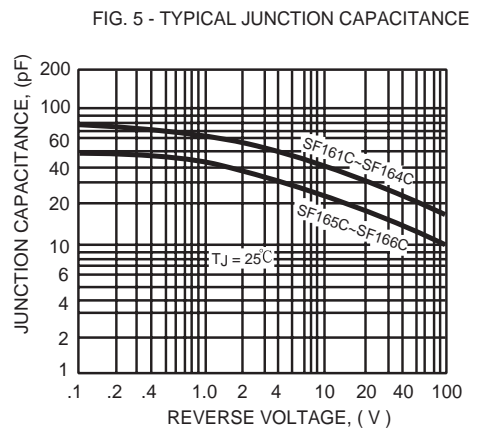
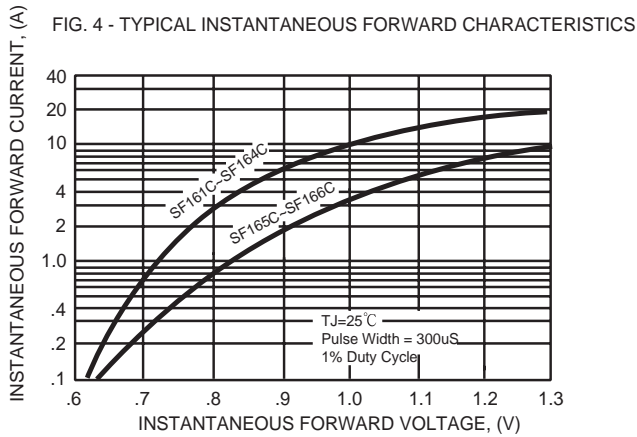
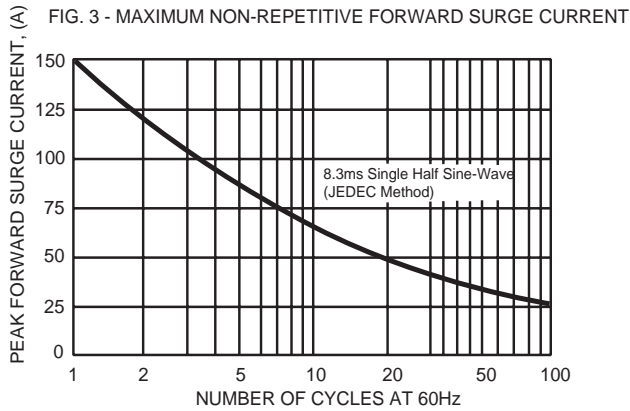
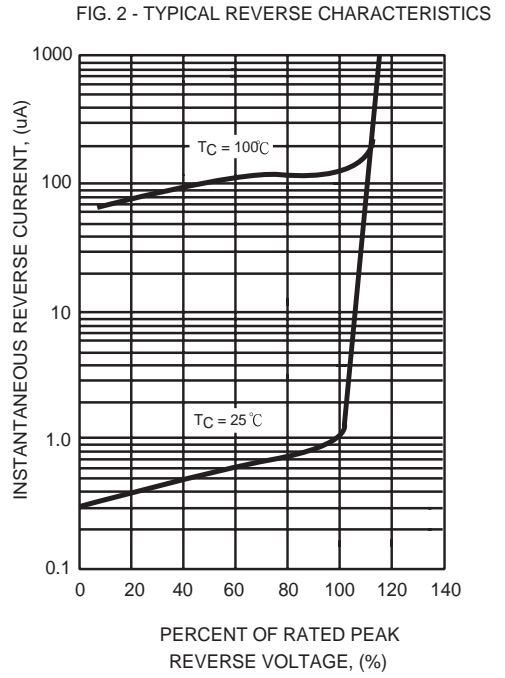
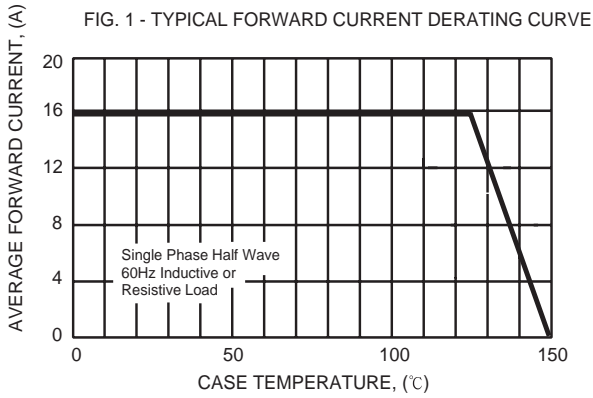
RATINGS	SYMBOL	SF161C	SF162C	SF163C	SF164C	SF165C	SF166C	UNITS	
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	150	200	300	400	Volts	
Maximum RMS Voltage	VRMS	35	70	105	140	210	280	Volts	
Maximum DC Blocking Voltage	Vbc	50	100	150	200	300	400	Volts	
Maximum Average Forward Rectified Current at Tc = 125°C	IO	16.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	150							Amps
Typical Thermal Resistance	RθJC	3							°C/W
Typical Junction Capacitance (Note 2)	CJ	50			30			pF	
Operating and Storage Temperature Range	TJ, TSTG	-65 to + 150							°C

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

CHARACTERISTICS	SYMBOL	SF161C	SF162C	SF163C	SF164C	SF165C	SF166C	UNITS
Maximum Instantaneous Forward Voltage at 8.0A DC	VF	1.0				1.35		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	IR	10			500			uAmps
Maximum Reverse Recovery Time (Note 1)	trr	35			50			nSec

NOTES : 1. Test Conditions: IF = 0.5A, IR = -1.0A, IRR = -0.25A  
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.  
3. Suffix "A" =Common Anode.

# RATING AND CHARACTERISTIC CURVES ( SF161C THRU SF166C )



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