



GLASS PASSIVATED SUPER FAST RECTIFIER

VOLTAGE RANGE 50 to 600 Volts CURRENT 16 Amperes

FEATURES

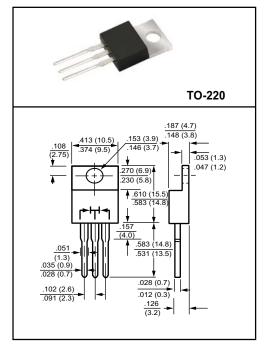
- * Low switching noise
- * Low forward voltage drop
- * Low thermal resistance
- * High current capability
- * Super fast switching speed
- * High reliability
- * Good for switching mode circuit

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: 2.2 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 (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	SF161C	SF162C	SF163C	SF164C	SF165C	SF166C	SF167C	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	150	200	300	400	600	Volts
Maximum RMS Voltage	VRMS	35	70	105	140	210	280	420	Volts
Maximum DC Blocking Voltage	VDC	50	100	150	200	300	400	600	Volts
Maximum Average Forward Rectified Current at Tc = 125°C	ю	16.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	150						Amps	
Typical Current Squarad Time	l ² t	93.37					A ² /Sec		
Typical Thermal Resistance	RθJC	3						⁰C/W	
Typical Junction Capacitance (Note 2)	CJ	50 30			pF				
Operating and Storage Temperature Range	Tj, Tstg	-55 to + 150					٥C		

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

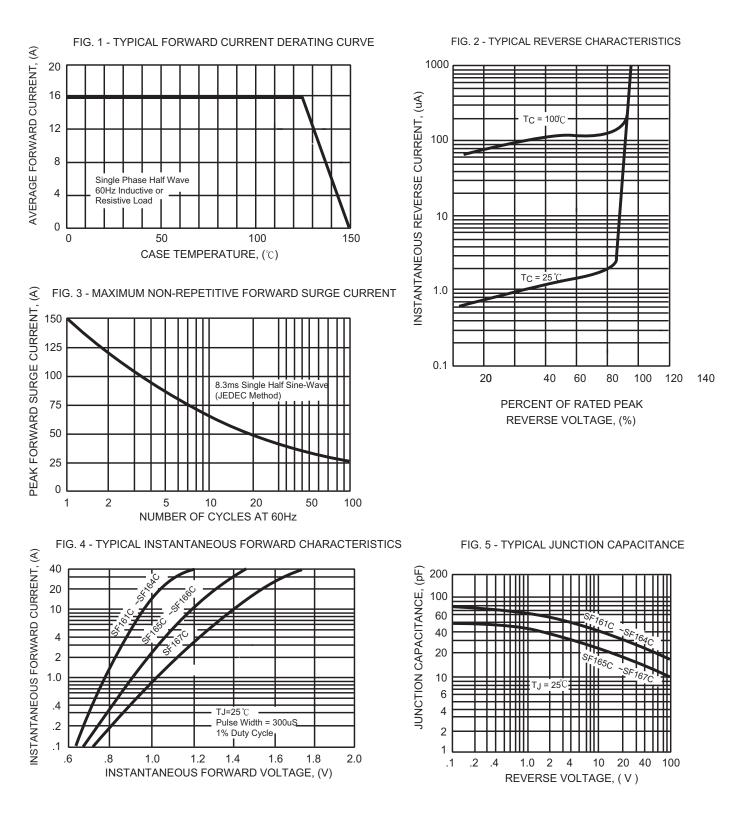
CHARACTERISTICS		SYMBOL	SF161C	SF162C	SF163C	SF164C	SF165C	SF166C	SF167C	UNITS
Maximum Instantaneous Forward Voltage at 8.0A DC		VF	1.0			1.35		1.70	Volts	
Maximum DC Reverse Current	@Tc = 25°C	-	10							
at Rated DC Blocking Voltage	@Tc = 100°C	IR	500							uAmps
Maximum Reverse Recovery Time (Note 1)		trr	35				50			nSec

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

Measured at 1 MHz and applied reverse voltage of 4.0 volts.
Suffix "A" =Common Anode.

2016-6 REV:A

RATING AND CHARACTERISTIC CURVES (SF161C THRU SF167C)



RECTRON

PACKAGING OF DIODE AND BRIDGE RECTIFIERS

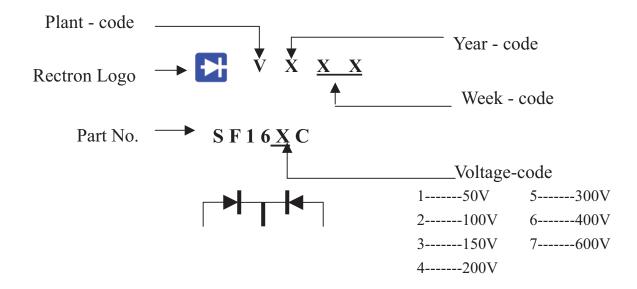
TUBE PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	WEIGHT(Kg)
TO-220	-C	1,000	555*150*40	580*230*175	5,000	15.0



Attachment information about SF16XC

Marking on the body



Items marked on the inner box and carton

1 .On the box (for -C) CUSTOMER TYPE LOT NO. QUANTITY Q.A. DATE 2 .On the carton CUSTOMER TYPE QUANTITY LOT NO. REMARK

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SF166C SF164C SF162C SF166A SF165C SF161C SF163C