

### GLASS PASSIVATED SUPER FAST RECTIFIER

VOLTAGE RANGE 50 to 600 Volts CURRENT 16 Amperes

#### FEATURES

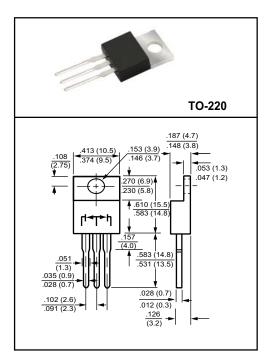
- \* Low switching noise
- \* Low forward voltage drop
- \* Low thermal resistance
- \* High current capability
- \* Super fast switching speed
- \* High reliability
- \* Good for switching mode circuit

### 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	SF161A	SF162A	SF163A	SF164A	SF165A	SF166A	SF167A	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 <sup>2</sup> t	93.37					A <sup>2</sup> /Sec		
Typical Thermal Resistance	R0JC	3					⁰C/W		
Typical Junction Capacitance (Note 2)	CJ	50 30			pF				
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150					°C		

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

CHARACTERISTICS		SYMBOL	SF161A	SF162A	SF163A	SF164A	SF165A	SF166A	SF167A	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	lR IR	500							uAmps
Maximum Reverse Recovery Time (Note 1)		trr	35			50			nSec	

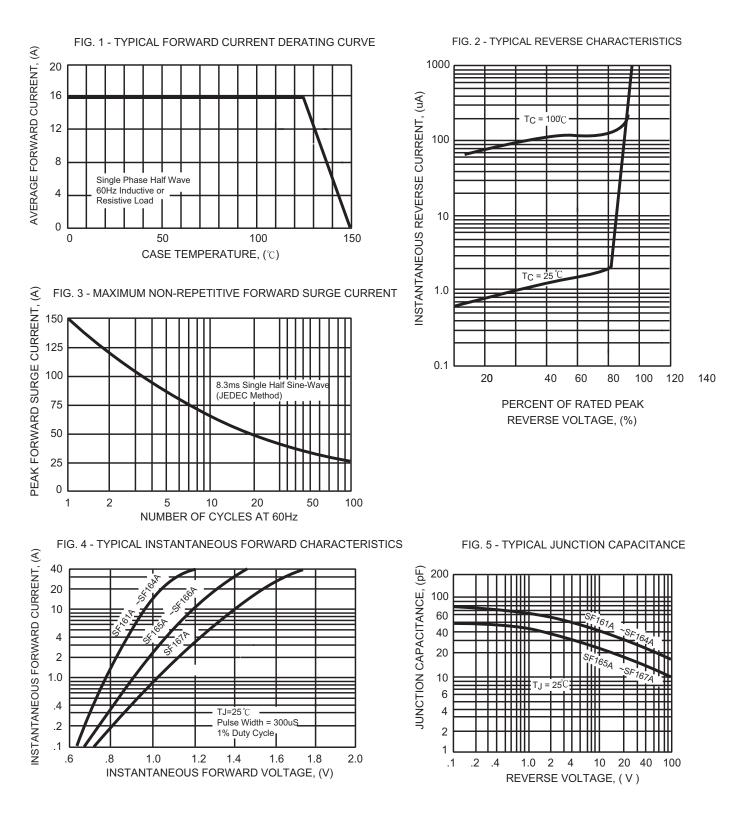
NOTES : 1. Test Conditions: IF = 0.5A, IR = -1.0A, IRR = -0.25A

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

3. Suffix "A" =Common Anode.

2016-8 REV:O

### RATING AND CHARACTERISTIC CURVES (SF161A THRU SF167A)



- CRECTRON

# PACKAGING OF DIODE AND BRIDGE RECTIFIERS

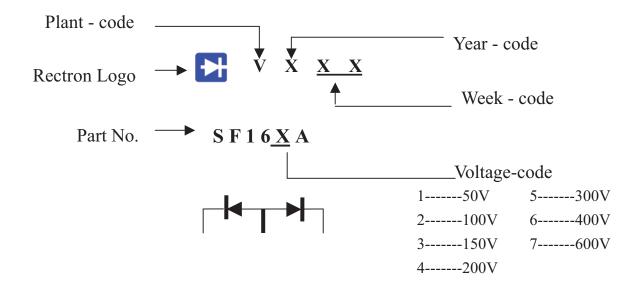
TUBE PACK

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 SF16XA

## 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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