

GLASS PASSIVATED SUPER FAST RECTIFIER

VOLTAGE RANGE 50 to 600 Volts CURRENT 16 Amperes

FEATURES

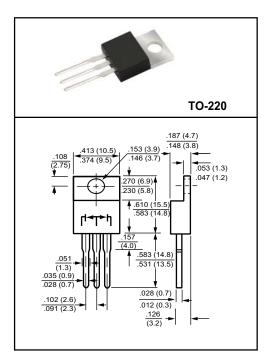
- * Low switching noise
- * Low forward voltage drop
- * Low thermal resistance
- * High current capability
- * Super fast switching speed
- * High reliability
- * Good for switching mode circuit

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 ² t | 93.37 | | | | | A ² /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 | |

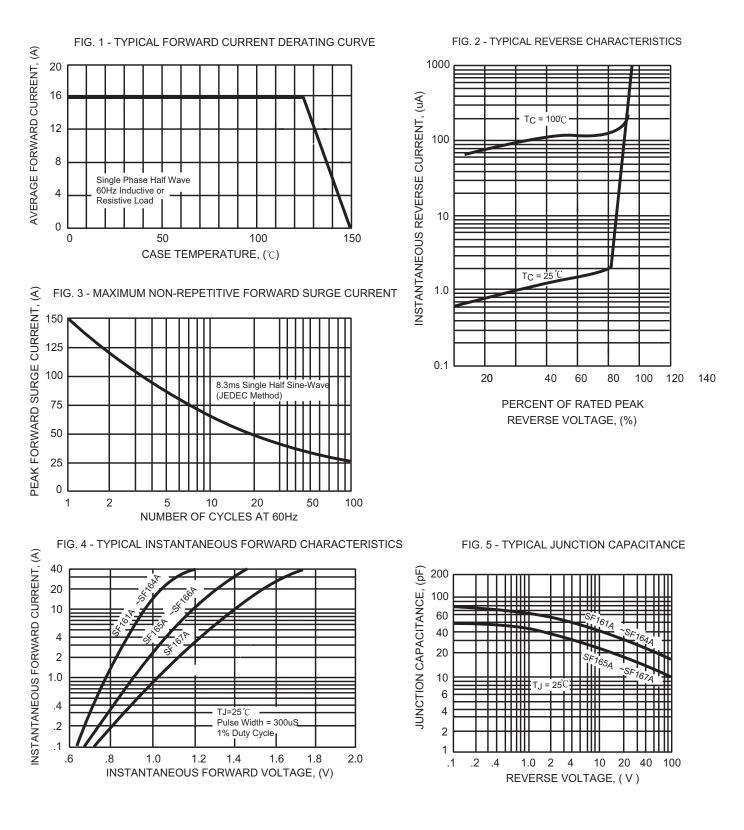
NOTES : 1. Test Conditions: IF = 0.5A, IR = -1.0A, IRR = -0.25A

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

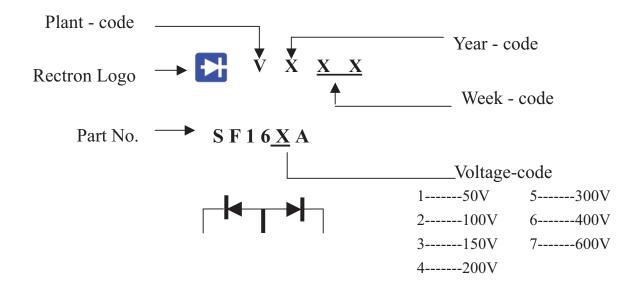
TUBE PACK

| 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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