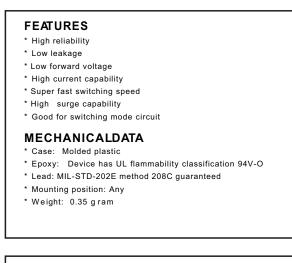
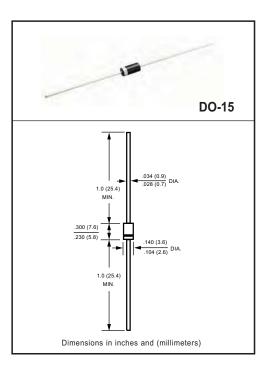




#### **GLASS PASSIVATED SUPER FAST RECTIFIER**

VOLTAGE RANGE 50 to 600 Volts CURRENT 2.0 Amperes





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified. resistive or inductive load.

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

| RATINGS  | SYMBOL               | SF21         | SF22 | SF23 | SF24 | SF25 | SF26 | SF27                | UNITS |
|--|----------------------|--------------|------|------|------|------|------|---------------------|-------|
| Maximum Recurrent Peak Reverse Voltage   | VRRM                 | 50           | 100  | 150  | 200  | 300  | 400  | 600                 | Volts |
| Maximum RMS Voltage  | V <sub>RMS</sub>     | 35           | 70   | 105  | 140  | 210  | 280  | 420                 | Volts |
| Maximum DC Blocking Voltage  | V <sub>DC</sub>      | 50           | 100  | 150  | 200  | 300  | 400  | 600                 | Volts |
| Maximum Average Forward Rectified Current<br>at $T_A = 55^{\circ}C$                                  | lo                   | 2.0          |      |      |      |      |      | Amps                |       |
| Peak Forward Surge Current 8.3 ms single half sine-wave<br>superimposed on rated load (JEDEC method) |                      |              |      | 75   | 75   |      |      |                     |       |
| Current Squarad Time   | l²t                  | 23.3         |      |      |      |      |      | A <sup>2</sup> /Sec |       |
| Typical Thermal Resistance (Note 3)  | $R_{\theta JA}$      | 40           |      |      |      |      |      |                     | ° CW  |
|  | $R_{\theta JL}$      | 15           |      |      |      |      |      |                     |       |
| Typical Junction Capacitance (Note 2)  | CJ                   | 50 30        |      |      |      |      |      | pF                  |       |
| Operating and Storage Temperature Range  | Tj, T <sub>STG</sub> | -55 to + 150 |      |      |      |      |      | ٥C                  |       |

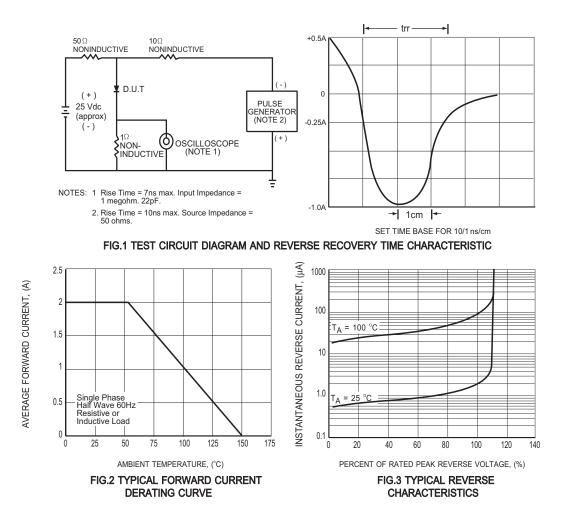
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

| CHARACTERIST                     | SYMBOL                                       | SF21  | SF22 | SF23 | SF24 | SF25 | SF26 | SF27   | UNITS |       |  |
|----------------------------------|--|-------|------|------|------|------|------|--------|-------|-------|--|
| Maximum Instantaneous Forward Vo | mum Instantaneous Forward Voltage at 2.0A DC |       |      | 0.95 |      |      |      | 1.25 1 |       | Volts |  |
| Maximum DC Reverse Current       | @T <sub>A</sub> = 25°C                       | la .  | 5.0  |      |      |      |      |        |       |       |  |
| at Rated DC Blocking Voltage     | @T <sub>A</sub> = 100°C                      | IR    |      |      |      | 100  |      |        |       | uAmps |  |
| Maximum Reverse Recovery Time    | trr  | 35 50 |      |      |      |      | 50   | nSec   |       |       |  |

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. Typical Thermal Resistance: At 9.5mm lead lengths,PCB mounted.
4. "Fully ROHS complaint", "100% Sn plating (Pb-free)"

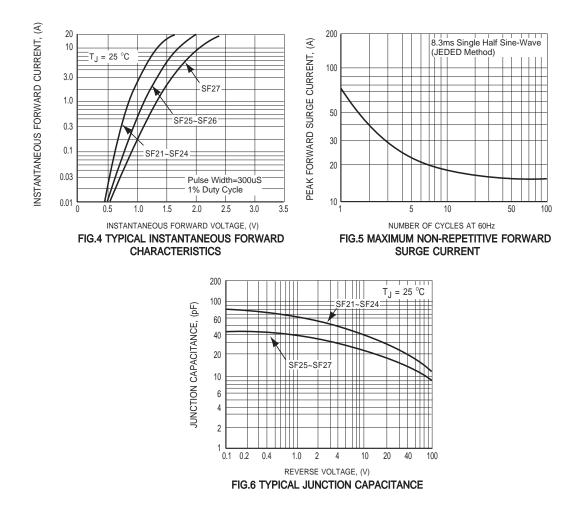
2009-09 REV:A

### RATING AND CHARACTERISTICS CURVES (SF21 THRU SF27)







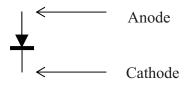




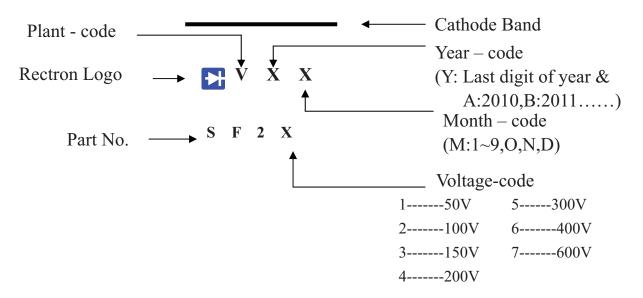


# Attachment information about SF2X

### 1. Internal Circuit



### 2. Marking on the body





## Attachment information about SF2X

#### 4. Items marked on the reel box and carton

4.1 On the reel (for –T) **CUSTOMER** TYPE QUANTITY LOT NO. **Q.A.** REMARK **4.2** On the box (for –E & -F) TYPE QUANTITY LOT NO. **Q.A.** 4.3 On the carton **CUSTOMER** TYPE **QUANTITY** LOT NO. REMARK

## PACKAGING OF DIODE AND BRIDGE RECTIFIERS

#### BULK PACK

| PACKA | GE | PACKING CODE | EA PER BOX | INNER BOX SIZE<br>(mm) | CARTON SIZE<br>(mm) | EA PER CARTON | GROSS<br>WEIGHT(Kg) |
|-------|----|--------------|------------|------------------------|---------------------|---------------|---------------------|
| DO-1  | 5  | -B           | 500        | 194*84*21              | 415*220*255         | 25,000        | 12.74               |

#### REEL PACK

| PACKAGE | PACKING<br>CODE | EA PER<br>REEL | EA PER<br>INNER<br>BOX | COMPONENT<br>SPACE<br>(mm) | TAPE SPACE<br>(mm) | REEL DIA<br>(mm) | CARTON SIZE<br>(mm) | EA PER<br>CARTON | GROSS<br>WEIGHT(Kg) |
|---------|-----------------|----------------|------------------------|----------------------------|--------------------|------------------|---------------------|------------------|---------------------|
| DO-15   | -T              | 4,000          | 4,000                  | 5.0                        | 52                 | 330              | 355*350*335         | 16,000           | 10.05               |

#### AMMO PACK

| PACKAGE | PACKING | REEL   | COMPONENT | TAPE SPACE | BOX SIZE   | CARTON      | CARTON | GROSS       |
|---------|---------|--------|-----------|------------|------------|-------------|--------|-------------|
|         | CODE    | ( EA ) | SPACE(mm) | (mm)       | (mm)       | SIZE(mm)    | (EA)   | WEIGHT (Kg) |
| DO-15   | -F      | 1,500  | 5.0       | 52         | 255*73*100 | 400*268*225 | 15,000 | 8.8         |



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