

## FEATURES

- \* Ideal for surface mount applications
- \* Easy pick and place
- \* Built-in strain relief
- \* Low forward voltage drop

## MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Metallurgically bonded construction
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any

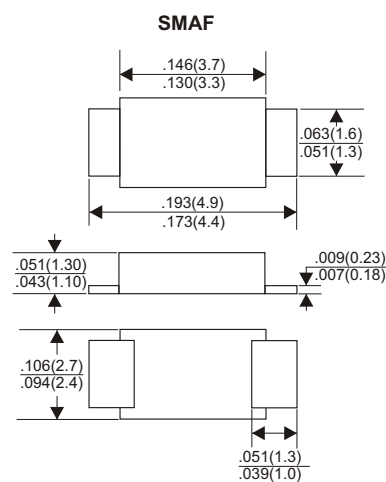


## VOLTAGE RANGE

60 Volts

## CURRENT

3.0 Amperes



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25 °C ambient temperature unless otherwise specified.  
Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

| TYPE NUMBER                                                                                        | SS36FL      | UNITS |
|----------------------------------------------------------------------------------------------------|-------------|-------|
| Maximum Recurrent Peak Reverse Voltage                                                             | 60          | V     |
| Maximum RMS Voltage                                                                                | 42          | V     |
| Maximum DC Blocking Voltage                                                                        | 60          | V     |
| Maximum Average Forward Rectified Current                                                          |             |       |
| See Fig. 1                                                                                         | 3.0         | A     |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 80          | A     |
| Maximum Instantaneous Forward Voltage at 3.0A                                                      | 0.55        | V     |
| Maximum DC Reverse Current Ta=25 °C                                                                | 150         | μA    |
| at Rated DC Blocking Voltage Ta=125 °C                                                             | 30          | mA    |
| Typical Junction Capacitance (Note1)                                                               | 240         | pF    |
| Typical Thermal Resistance R <sub>JL</sub> (Note 2)                                                | 28          | °C/W  |
| Operating Temperature Range T <sub>J</sub>                                                         | -55 to +125 | °C    |
| Storage Temperature Range T <sub>STG</sub>                                                         | -55 to +150 | °C    |

### NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. P.C.B. mounted with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

# RATING AND VCHARACTERISTIC CURVES(SS36FL)

FIG.1-FORWARD CURRENT DERATING CURVE

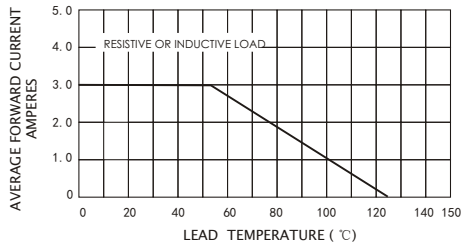


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

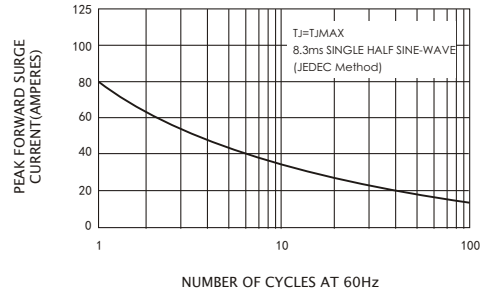


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

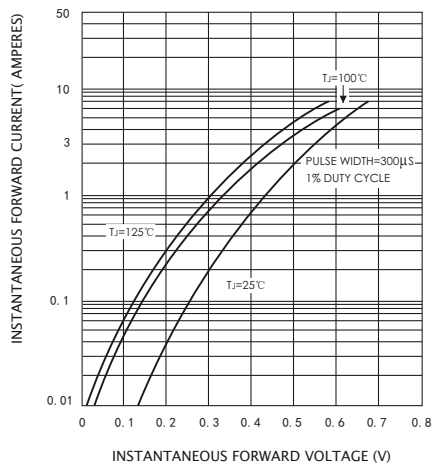


FIG.4-TYPICAL REVERSE CHARACTERISTICS

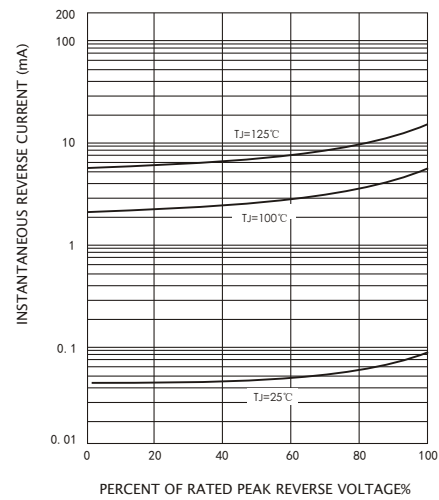


FIG.5-TYPICAL JUNCTION CAPACITANCE

