

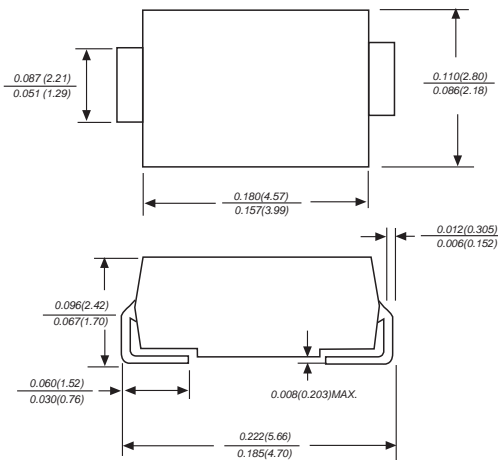


# THE DATASHEET OF SS3150



Reverse Voltage - 20 to 200 Volts Forward Current - 3.0 Amperes

### SMA/DO-214AC



Dimensions in inches and (millimeters)

### FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Metal silicon junction, majority carrier conduction
- ◆ Low power loss, high efficiency
- ◆ Built-in strain relief, ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 250°C/10 seconds at terminals

### MECHANICAL DATA

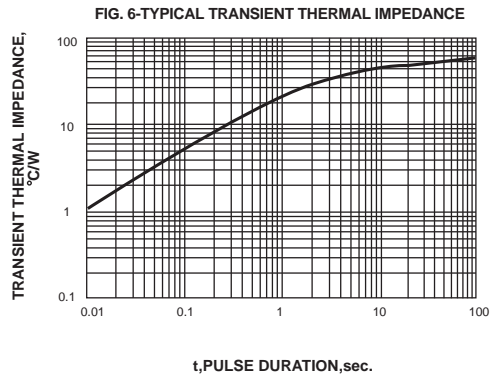
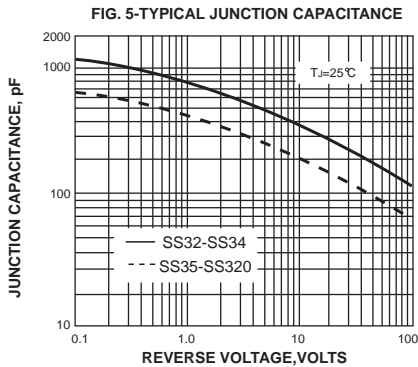
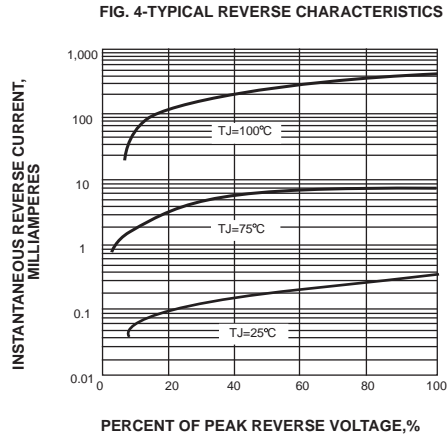
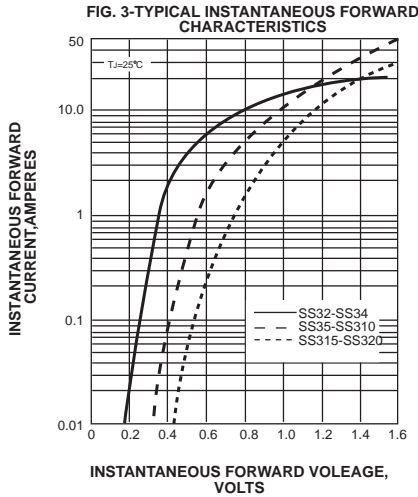
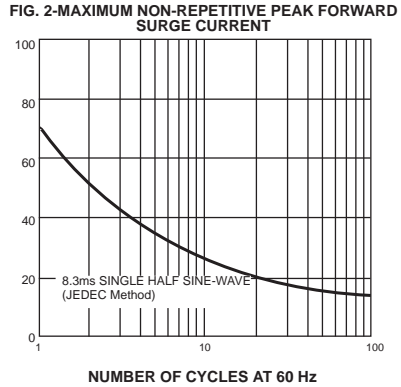
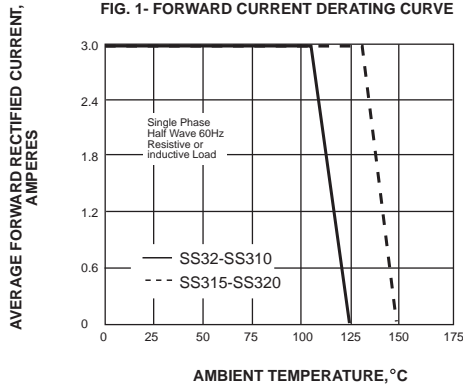
**Case:** JEDEC DO-214AC molded plastic body  
**Terminals:** leads solderable per MIL-STD-750, Method 2026  
**Polarity:** Color band denotes cathode end  
**Mounting Position:** Any  
**Weight :** 0.058 grams

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

|   | SYMBOLS         | SS32        | SS33 | SS34 | SS35 | SS36        | SS38 | SS310 | SS3150 | SS3200 | UNITS |      |
|---|-----------------|-------------|------|------|------|-------------|------|-------|--------|--------|-------|------|
| Maximum repetitive peak reverse voltage   | $V_{RRM}$       | 20          | 30   | 40   | 50   | 60          | 80   | 100   | 150    | 200    | VOLTS |      |
| Maximum RMS voltage   | $V_{RMS}$       | 14          | 21   | 28   | 35   | 42          | 56   | 70    | 105    | 140    | VOLTS |      |
| Maximum DC blocking voltage   | $V_{DC}$        | 20          | 30   | 40   | 50   | 60          | 80   | 100   | 150    | 200    | VOLTS |      |
| Maximum average forward rectified current at $T_L$ (see fig.1)                                      | $I_{(AV)}$      | 3.0         |      |      |      |             |      |       |        |        | Amps  |      |
| Peak forward surge current<br>8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | $I_{FSM}$       | 70.0        |      |      |      |             |      |       |        |        | Amps  |      |
| Maximum instantaneous forward voltage at 3.0A   | $V_F$           | 0.55        |      | 0.70 |      | 0.85        |      | 0.95  |        | Volts  |       |      |
| Maximum DC reverse current<br>at rated DC blocking voltage  | $I_R$           | 0.5         |      |      |      |             |      |       | 1.0    |        | mA    |      |
|   |                 | 20          |      | 10   |      |             |      |       |        |        |       |      |
| Typical junction capacitance (NOTE 1)   | $C_J$           | 500         |      |      |      | 300         |      |       |        | pF     |       |      |
| Typical thermal resistance (NOTE 2)   | $R_{\theta JA}$ | 55.0        |      |      |      |             | 62.0 |       |        |        |       | °C/W |
| Operating junction temperature range  | $T_J$           | -65 to +125 |      |      |      | -65 to +150 |      |       |        |        |       | °C   |
| Storage temperature range   | $T_{STG}$       | -65 to +150 |      |      |      |             |      |       |        |        |       | °C   |

**Note:** 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.  
 2. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas



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