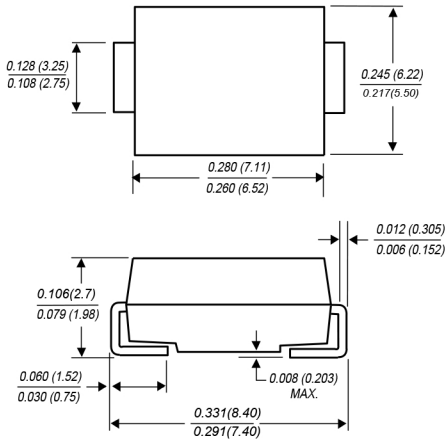


## DO-214AB



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-214AB molded plastic body  
**Terminals:** leads solderable per MIL-STD-750, Method 2026  
**Polarity:** Color band denotes cathode end  
**Mounting Position:** Any  
**Weight:** 0.22 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 | SS315 | SS320 | 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<br>$T_A=25^\circ\text{C}$<br>$T_A=100^\circ\text{C}$ | $I_R$           | 20          |      |      | 10          |      |      | 1.0   |       |       | mA    |
| 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

