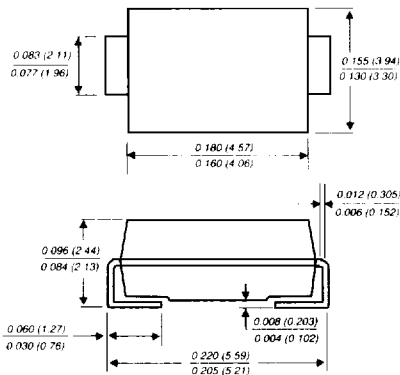


# SS22 THRU SS26

**SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER**  
*Reverse Voltage - 20 to 60 Volts      Forward Current - 2.0 Amperes*

## DO-214AA



Dimensions in inches and (millimeters)

## FEATURES

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Low profile package
- ◆ Built-in strain relief
- ◆ Metal silicon junction, majority carrier conduction
- ◆ Low power loss, high efficiency
- ◆ High current capability, low forward voltage drop
- ◆ High surge capability
- ◆ For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- ◆ Guardring for overvoltage protection
- ◆ High temperature soldering guaranteed: 250°C/10 seconds at terminals

## MECHANICAL DATA

**Case:** JEDEC DO-214AA molded plastic body

**Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026

**Polarity:** Color band denotes cathode end

**Weight:** 0.003 ounce, 0.093 gram

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

|   | SYMBOLS         | SS22        | SS23 | SS24 | SS25        | SS26 | UNITS |
|---|-----------------|-------------|------|------|-------------|------|-------|
| Device marking code   |                 | S2          | S3   | S4   | S5          | S6   |       |
| Maximum repetitive peak reverse voltage   | $V_{RRM}$       | 20          | 30   | 40   | 50          | 60   | Volts |
| Maximum RMS voltage   | $V_{RMS}$       | 14          | 21   | 28   | 35          | 42   | Volts |
| Maximum DC blocking voltage   | $V_{DC}$        | 20          | 30   | 40   | 50          | 60   | Volts |
| Maximum average forward rectified current at $T_L$ (SEE FIG. 1)   | $I_{(AV)}$      | 2.0         |      |      |             |      | Amps  |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)                | $I_{FSM}$       | 50.0        |      |      |             |      | Amps  |
| Maximum instantaneous forward voltage at 2.0A (NOTE 1)  | $V_F$           | 0.50        |      |      | 0.70        |      | Volts |
| Maximum DC reverse current (NOTE 1) $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=100^\circ\text{C}$ | $I_R$           | 0.5         |      |      | 10.0        |      | mA    |
| Maximum thermal resistance (NOTE 2)   | $R_{\theta JA}$ | 75.0        |      |      |             |      | °C/W  |
|   | $R_{\theta JL}$ | 17.0        |      |      |             |      |       |
| Operating junction temperature range  | $T_J$           | -65 to +125 |      |      | -65 to +150 |      | °C    |
| Storage temperature range   | $T_{STG}$       | -65 to +150 |      |      |             |      | °C    |

### NOTES:

- (1) Pulse test: 300µs pulse width, 1% duty cycle
- (2) P.C.B. mounted with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas

# RATINGS AND CHARACTERISTIC CURVES SS22 THRU SS26

