



# SK22A thru SK26A

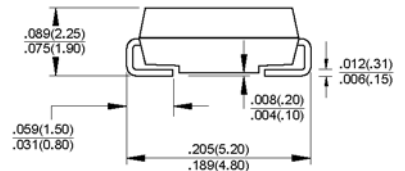
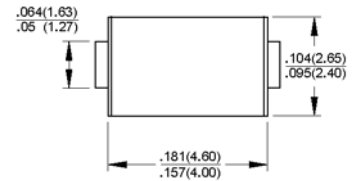
Surface Mount Schottky Barrier Rectifiers  
Reverse Voltage 20 to 60 Volts Forward Current 2.0 Amperes

## Features

- ◆ For surface mounted applications
- ◆ Metal-Semiconductor junction with guarding
- ◆ Epitaxial construction
- ◆ Very low forward voltage drop
- ◆ High current capability
- ◆ Plastic material has UL flammability classification 94V-0
- ◆ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications



DO-214AC (SMA)



Dimensions in inches and (millimeters)

## Mechanical Data

- ◆ Case : JEDEC DO-214AC(SMA) molded plastic
- ◆ Polarity : Indicated by cathode band
- ◆ Weight : 0.002 ounce, 0.064 gram

## 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, derate current by 20%

| Parameter                                                                                                      | Symbols           | SK22A       | SK23A | SK24A | SK25A | SK26A | Units |
|----------------------------------------------------------------------------------------------------------------|-------------------|-------------|-------|-------|-------|-------|-------|
| Maximum repetitive peak reverse voltage                                                                        | V <sub>RRM</sub>  | 20          | 30    | 40    | 50    | 60    | Volts |
| Maximum RMS voltage                                                                                            | V <sub>RMS</sub>  | 14          | 21    | 28    | 35    | 42    | Volts |
| Maximum DC blocking voltage                                                                                    | V <sub>DC</sub>   | 20          | 30    | 40    | 50    | 60    | Volts |
| Maximum average forward rectified current<br>@T <sub>L</sub> =100°C                                            | I <sub>(AV)</sub> | 2.0         |       |       |       |       | Amps  |
| Peak forward surge current<br>8.3ms single half sine-wave<br>superimposed on rated load (JEDEC Method)         | I <sub>FSM</sub>  | 50.0        |       |       |       |       | Amps  |
| Maximum forward voltage at 2.0A DC                                                                             | V <sub>F</sub>    | 0.50        |       |       | 0.70  |       | Volts |
| Maximum DC reverse current<br>@T <sub>J</sub> = 25°C<br>at rated DC blocking voltage<br>@T <sub>J</sub> =100°C | I <sub>R</sub>    | 0.5<br>20   |       |       |       |       | mA    |
| Typical junction capacitance (Note1)                                                                           | C <sub>J</sub>    | 200         |       |       |       |       | pF    |
| Typical thermal resistance (Note 2)                                                                            | R <sub>θJL</sub>  | 15          |       |       |       |       | °C/W  |
| Operating junction 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 1.0MHz and applied reverse voltage of 4.0V DC.
  2. Thermal Resistance Junction to Lead.

# RATINGS AND CHARACTERISTIC CURVES

