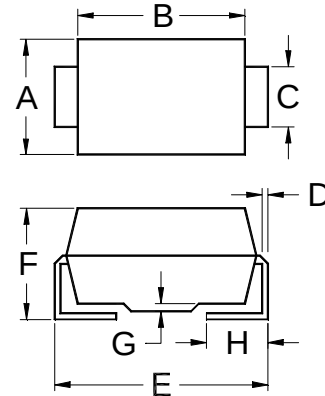


**SS22 THRU SS26****SURFACE MOUNT SCHOTTKY  
BARRIER RECTIFIER****TECHNICAL  
SPECIFICATION****VOLTAGE: 20 TO 60V CURRENT: 2.0A****FEATURES**

- Ideal for surface mount pick and place application
- Low profile package
- Low power loss, high efficiency
- High current capability, low  $V_F$
- High surge capability
- High temperature soldering guaranteed: 260°C/10sec/at terminal

**MECHANICAL DATA**

- Terminal: Plated leads solderable per MIL-STD 202E, method 208C
- Case: Molded with UL-94 Class V-O recognized flame retardant epoxy
- Polarity: Color band denotes cathode

**SMB/DO-214AA**

|      | A          | B          | C           | D           |
|------|------------|------------|-------------|-------------|
| MAX. | .155(3.94) | .180(4.57) | .083(2.11)  | .012(0.305) |
| MIN. | .130(3.30) | .160(4.06) | .077(1.96)  | .006(0.152) |
|      | E          | F          | G           | H           |
| MAX. | .220(5.59) | .096(2.44) | .008(0.203) | .060(1.52)  |
| MIN. | .205(5.21) | .084(2.13) | .004(0.102) | .030(0.76)  |

Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

(Single-phase, half-wave, 60Hz, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

| RATINGS                                                                                              | SYMBOL                            | SS22        | SS23 | SS24 | SS25 | SS26 | UNITS    |
|------------------------------------------------------------------------------------------------------|-----------------------------------|-------------|------|------|------|------|----------|
| Maximum Repetitive Peak Reverse Voltage                                                              | V <sub>RRM</sub>                  | 20          | 30   | 40   | 50   | 60   | V        |
| Maximum RMS Voltage                                                                                  | V <sub>RMS</sub>                  | 14          | 21   | 28   | 35   | 42   | V        |
| Maximum DC Blocking Voltage                                                                          | V <sub>DC</sub>                   | 20          | 30   | 40   | 50   | 60   | V        |
| Maximum Average Forward Rectified Current (T <sub>L</sub> =100°C)                                    | I <sub>F(AV)</sub>                | 2.0         |      |      |      |      | A        |
| Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)                  | I <sub>FSM</sub>                  | 50          |      |      |      |      | A        |
| Maximum Instantaneous Forward Voltage (at rated forward current)                                     | V <sub>F</sub>                    | 0.5         |      |      | 0.7  |      | V        |
| Maximum DC Reverse Current T <sub>a</sub> =25°C (at rated DC blocking voltage) T <sub>a</sub> =100°C | I <sub>R</sub>                    | 0.5<br>10.0 |      |      |      |      | mA<br>mA |
| Typical Junction Capacitance (Note 1)                                                                | C <sub>J</sub>                    | 200         |      |      |      |      | pF       |
| Typical Thermal Resistance (Note 2)                                                                  | R <sub>θ(ja)</sub>                | 25          |      |      |      |      | °C/W     |
| Storage and Operation Junction Temperature                                                           | T <sub>STG</sub> , T <sub>J</sub> | -65 to +150 |      |      |      |      | °C       |

Note:

1. Measured at 1.0 MHz and applied voltage of  $4.0V_{dc}$
2. Thermal resistance from junction to terminal mounted on 5×5mm copper pad area