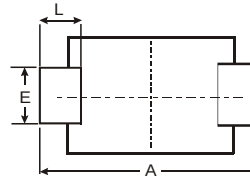
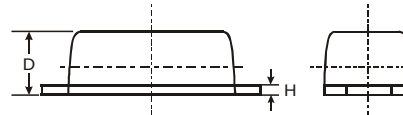
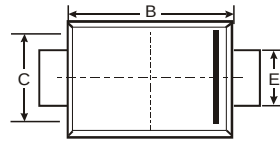
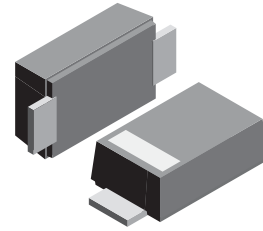


**VOLTAGE RANGE: 20 - 100V**  
**CURRENT: 2.0 A**

### Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O



| SMBF                 |       |       |      |
|----------------------|-------|-------|------|
| Dim                  | Min   | Max   | Typ  |
| A                    | 5.45  | 5.55  | 5.50 |
| B                    | 4.27  | 4.33  | 4.30 |
| C                    | 3.57  | 3.63  | 3.60 |
| D                    | 1.32  | 1.38  | 1.35 |
| E                    | 1.96  | 2.00  | 1.98 |
| H                    | 0.019 | 0.021 | 0.20 |
| L                    | 0.73  | 0.77  | 0.75 |
| All Dimensions in mm |       |       |      |

### Mechanical Data

- Case:SMBF , Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.0018 ounces,0.05grams



### Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Characteristic                                                                                                  | Symbol            | SS22F       | SS23F | SS24F | SS25F       | SS26F | SS28F | SS210F | Unit |
|-----------------------------------------------------------------------------------------------------------------|-------------------|-------------|-------|-------|-------------|-------|-------|--------|------|
| Maximum repetitive peak reverse voltage                                                                         | V <sub>RRM</sub>  | 20          | 30    | 40    | 50          | 60    | 80    | 100    | V    |
| Maximum RMS voltage                                                                                             | V <sub>RMS</sub>  | 14          | 21    | 28    | 35          | 42    | 56    | 70     | V    |
| Maximum DC blocking voltage                                                                                     | V <sub>DC</sub>   | 20          | 30    | 40    | 50          | 60    | 80    | 100    | V    |
| Maximum average forward rectified current at T <sub>L</sub> (see fig.1)                                         | I <sub>(AV)</sub> | 2.0         |       |       |             |       |       |        | A    |
| Peak forward surge current<br>8.3ms single half sine-wave superimposed on rated load (JEDEC Method)             | I <sub>FSM</sub>  | 50.0        |       |       |             |       |       |        | A    |
| Maximum instantaneous forward voltage at 2.0A                                                                   | V <sub>F</sub>    | 0.55        |       |       | 0.70        |       | 0.85  |        | V    |
| Maximum DC reverse current      T <sub>A</sub> =25°C<br>at rated DC blocking voltage      T <sub>A</sub> =100°C | I <sub>R</sub>    | 0.5         |       |       |             |       |       |        | mA   |
|                                                                                                                 |                   | 20          |       |       | 10          |       |       |        |      |
| Typical junction capacitance (NOTE 1)                                                                           | C <sub>J</sub>    | 220         |       |       | 180         |       |       |        | pF   |
| Typical thermal resistance (NOTE 2)                                                                             | R <sub>θJA</sub>  | 75.0        |       |       |             |       |       |        | °C/W |
| Operating junction temperature range                                                                            | T <sub>J</sub>    | -65 to +125 |       |       | -65 to +150 |       |       |        | °C   |
| Storage temperature range                                                                                       | T <sub>STG</sub>  | -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

## RATINGS AND CHARACTERISTIC CURVES SS22F THRU SS210F

