

### FEATURES

- ✧ Low Forward Voltage Drop
- ✧ Flat Lead SOD-523 Small Outline Plastic Package
- ✧ Extremely Small SOD-523 Package
- ✧ Surface Device Type Mounting
- ✧ ROHS Compliant
- ✧ Green EMC
- ✧ Matte Tin(Sn) Lead Finish
- ✧ Band Indicates Cathode
- ✧ Marking: B

### PACKAGE OUTLINE



### MAXIMUM RATING(T<sub>amb</sub>=25°C)

| Symbol             | Parameter  | Value     | Units |
|--------------------|--|-----------|-------|
| P <sub>D</sub>     | Power Dissipation  | 200       | mW    |
| T <sub>STG</sub>   | Storage Temperature Range                                      | -55to+125 | °C    |
| T <sub>J</sub>     | Operating Junction Temperature                                 | +125      | °C    |
| V <sub>R</sub>     | Reverse Voltage  | 30        | V     |
| I <sub>F(AV)</sub> | Average Forward Current  | 200       | mA    |
| I <sub>FSM</sub>   | Peak Forward Surge Current<br>(At 8.3ms single half sine-wave) | 1         | A     |

These ratings are limiting values above which the serviceability of the diode may be impaired.

### ELECTRICAL CHARACTERISTICS (T<sub>amb</sub>=25°C)

| Parameter                                      | Symbol         | Min. | Typ. | Max. | Unit  |
|--|----------------|------|------|------|-------|
| Breakdown Voltage at I <sub>R</sub> =500uA     | B <sub>v</sub> | 30   |      |      | Volts |
| Reverse Leakage Current at V <sub>R</sub> =10V | I <sub>R</sub> |      |      | 1    | uA    |
| Forward Voltage at I <sub>F</sub> =200mA       | V <sub>F</sub> |      |      | 0.6  | Volts |

## ELECTRICAL CHARACTERISTICS CURVE

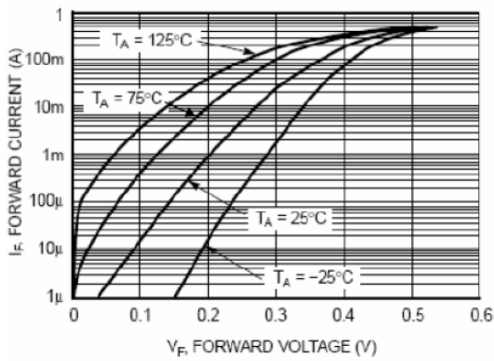


Figure 1. Forward Characteristics

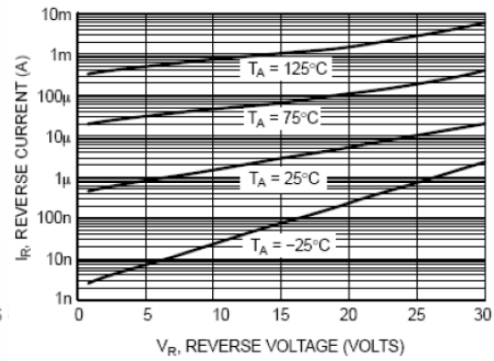


Figure 2. Reverse Characteristics

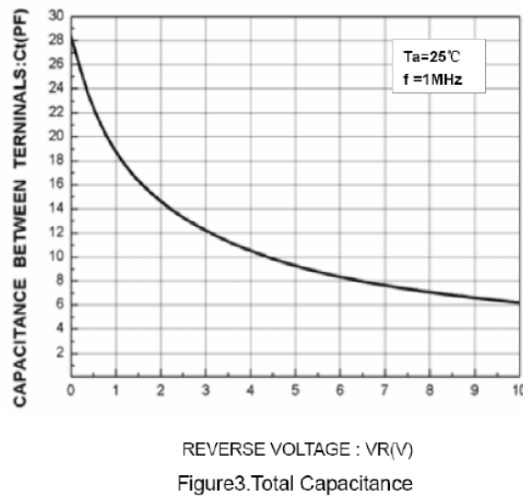
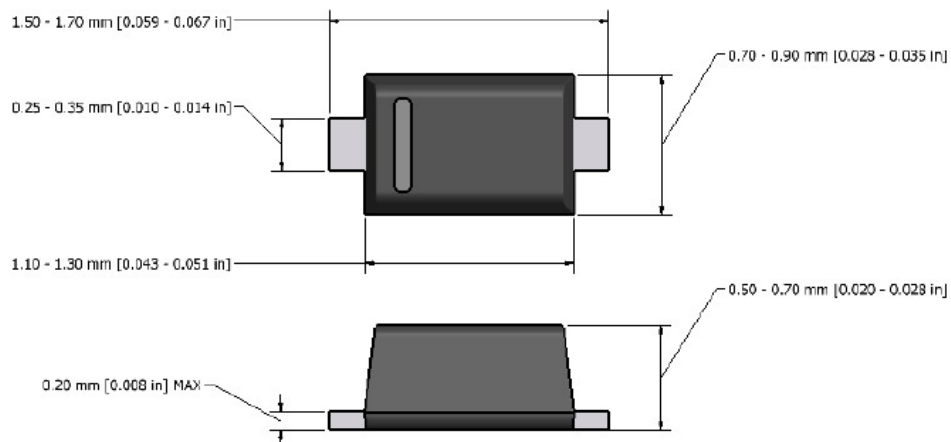


Figure 3. Total Capacitance

## SOD-523 PACKAGE OUTLINE DIMENSIONS



**Note:** Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.