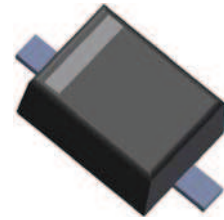
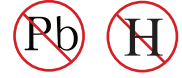




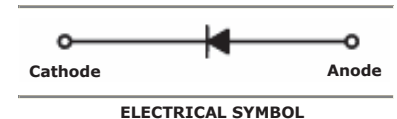
SOD-323 SURFACE MOUNT

Flat Lead Plastic Package

Schottky Barrier Diode



SOD-323 Flat Lead



ELECTRICAL SYMBOL

Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

| Symbol | Parameter | Value | Units |
|-----------|---|-------------|------------------|
| P_D | Power Dissipation | 250 | mW |
| T_{STG} | Storage Temperature Range | -55 to +125 | $^\circ\text{C}$ |
| T_J | Junction Temperature | +125 | $^\circ\text{C}$ |
| V_{RM} | Repetitive Peak Reverse Voltage | 40 | V |
| I_O | Average Rectified Output Current | 1 | A |
| I_{FSM} | Peak Forward Surge Current ($t=8.3\text{ms}$ Single Half Sine-wave) | 9 | A |
| I_{FRM} | Repetitive Peak Forward Current | 1.5 | A |

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

DEVICE MARKING CODES:

| Device Type | Device Marking |
|-------------|----------------|
| B5819WS | SL |

Specification Features:

- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode
- Weight: approx. 0.004g

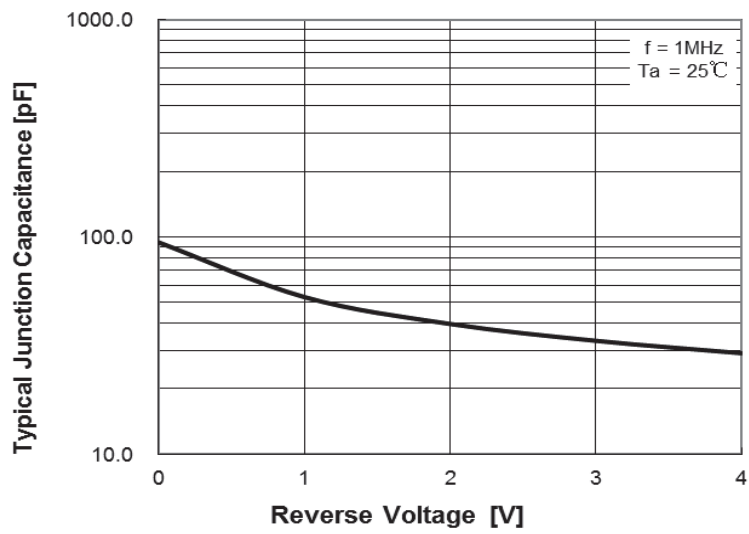
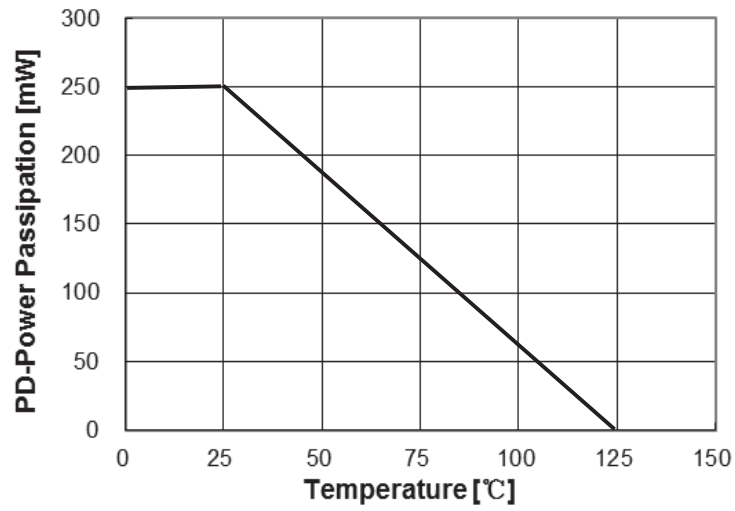
Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

| Symbol | Parameter | Test Condition | Limits | | | Unit |
|----------|---------------------------|--------------------------------|--------|-----|------|-------|
| | | | Min | Typ | Max | |
| V_{BR} | Reverse Breakdown Voltage | $I_R=1\text{mA}$ | 40 | -- | -- | Volts |
| I_R | Reverse Leakage Current | $V_R=40\text{V}$ | -- | -- | 1 | mA |
| V_F | Forward Voltage | $I_F=1\text{A}$ | -- | -- | 0.60 | Volts |
| C_d | Diode Capacitance | $V_R=4\text{V}, f=1\text{MHz}$ | -- | 30 | -- | pF |

DEVICE CHARACTERISTICS

B5819WSFL

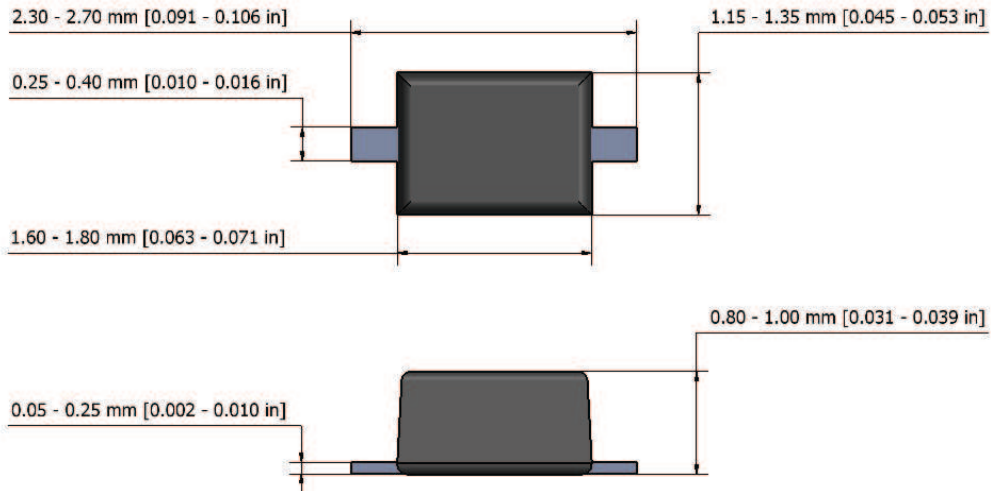
RATING AND CHARACTERISTIC CURVES



PACKAGE OUTLINE AND DIMENSIONS

B5819WSFL

SOD-323 Package Outline



NOTES:

1. The above package outline is similar to JEITA SC-90.
2. Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.

Mounting PAD Layout

