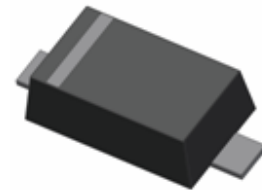
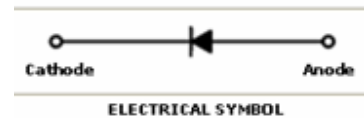


**SOD-323 SURFACE MOUNT**  
**Flat Lead Plastic Package**  
**Schottky Barrier Diode**

**Green Product**



SOD-323 Flat Lead



**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.

**Specification Features:**

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

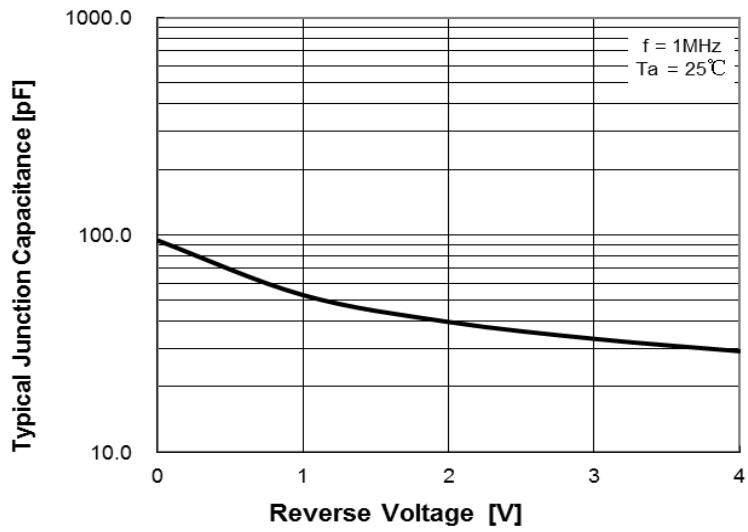
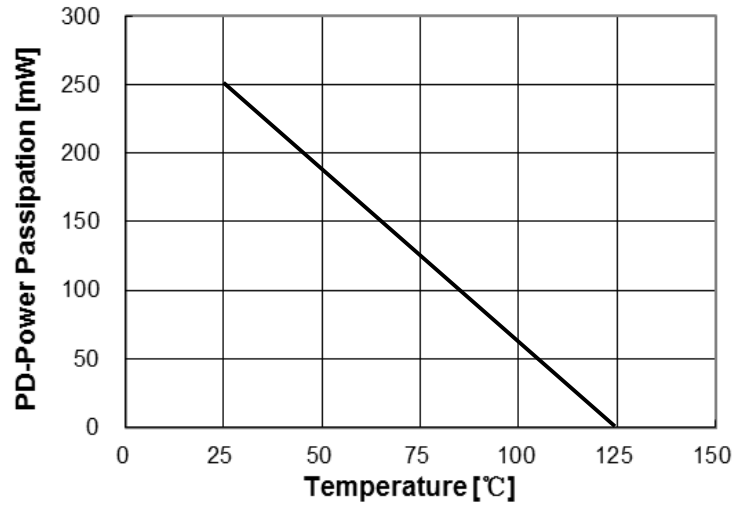
**DEVICE MARKING CODES:**

Device Type	Device Marking
B5819WS	SL

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

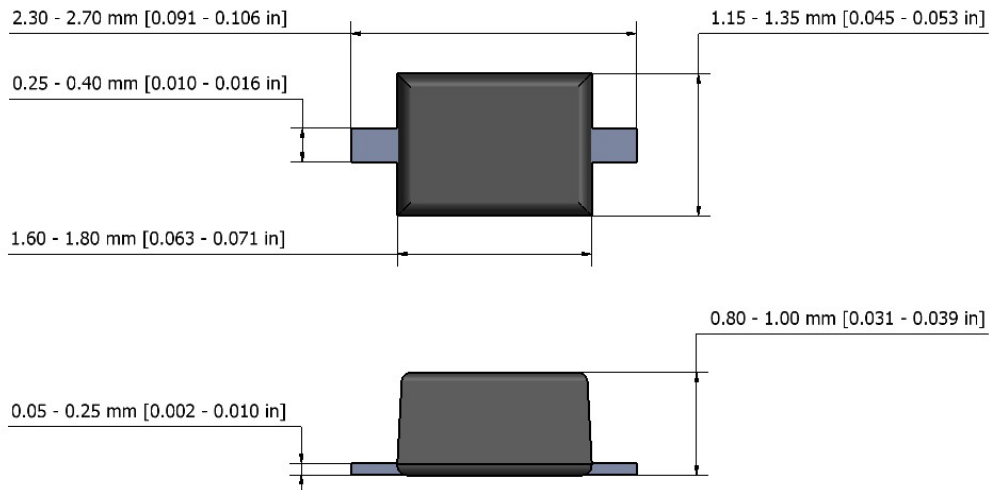
Symbol	Parameter	Test Condition	Limits			Unit
			Min	Typ	Max	
$V_{BR}$	Reverse Breakdown Voltage	$I_R=1\text{mA}$	40	--	--	Volts
$I_R$	Reverse Leakage Current	$V_R=40\text{V}$	--	--	1	mA
$V_F$	Forward Voltage	$I_F=1\text{A}$	--	--	0.60	Volts
$C_d$	Diode Capacitance	$V_R=4\text{V}, f=1\text{MHz}$	--	30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

**RATING AND CHARACTERISTIC CURVES**



### SOD-323 Package Outline

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**NOTES:**

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