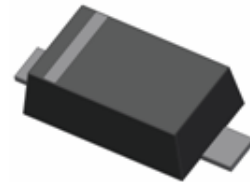


**SOD-123 SURFACE MOUNT**  
**Flat Lead Plastic Package**  
**Schottky Barrier Diode**

Green Product



SOD-123 Flat Lead



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

Symbol	Parameter	Value	Units
$P_D$	Power Dissipation	500	mW
$T_{STG}$	Storage Temperature Range	-55 to +150	$^\circ\text{C}$
$T_J$	Operating Junction Temperature	+150	$^\circ\text{C}$
$V_{RM}$	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:**

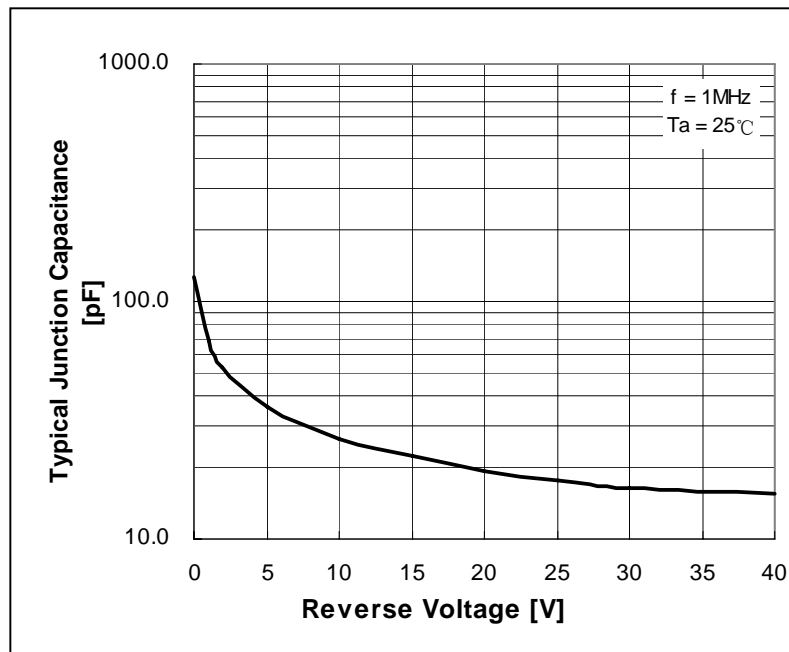
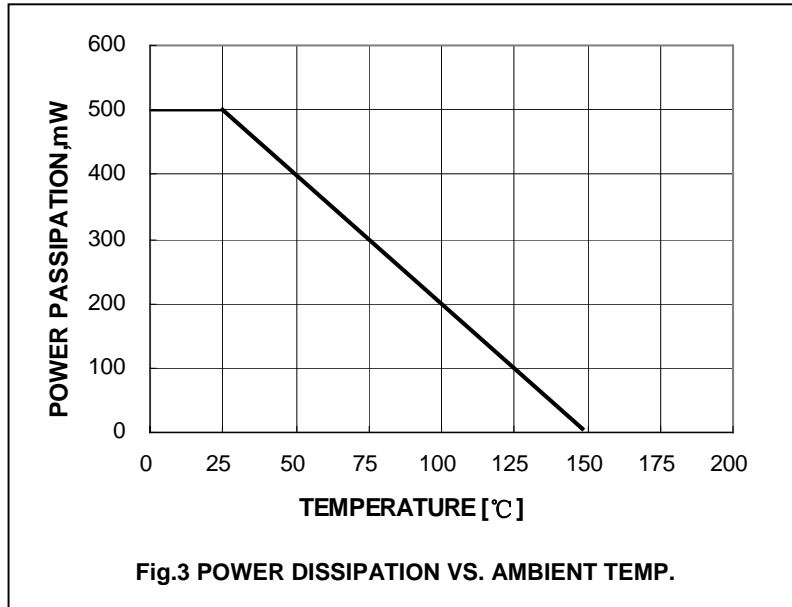
- For use in low voltage, high frequency inverters, free wheeling & polarity protection...
- Flat Lead SOD-123 Small Outline Plastic Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode
- Weight: approx. 0.01g

**DEVICE MARKING CODES:**

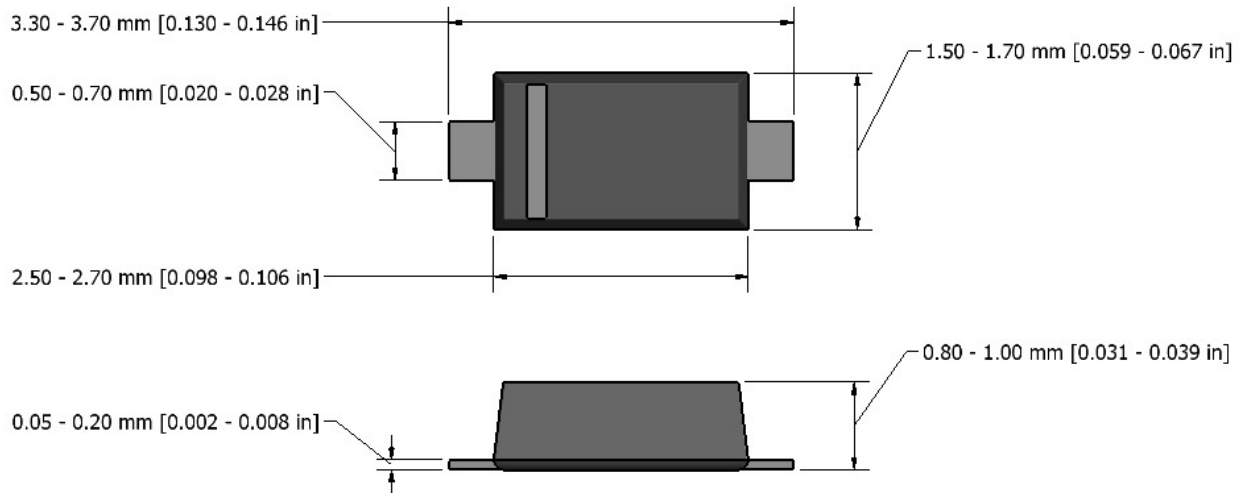
Device Type	Device Marking
B5819W	SL

**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	$I_F=1\text{A}$ $I_F=3\text{A}$	--	--	0.60 0.90	Volts
$C_d$	Diode Capacitance	$V_R=4\text{V}$ $f=1\text{MHz}$	--	--	120	pF

**RATING AND CHARACTERISTIC CURVES**


**SOD-123 Package Outline**



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

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