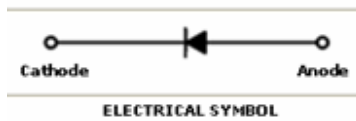


SOD-523 Flat Lead

### Specification 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



### DEVICE MARKING CODES:



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

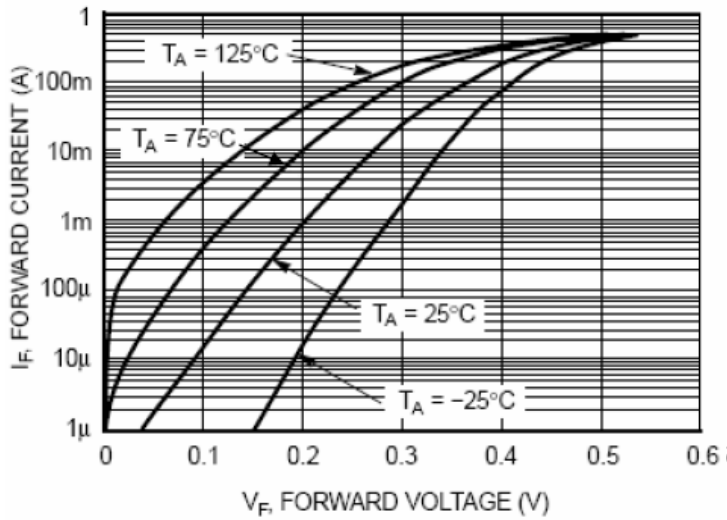
Symbol	Parameter	Value	Units
$P_D$	Power Dissipation	200	mW
$T_{STG}$	Storage Temperature Range	-55 to +125	$^\circ\text{C}$
$T_J$	Operating Junction Temperature	+125	$^\circ\text{C}$
$V_R$	Reverse Voltage	30	V
$I_{F(AV)}$	Average Forward Current	200	mA
$I_{FSM}$	Peak Forward Surge Current (At 8.3ms single half sine-wave)	1	A

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

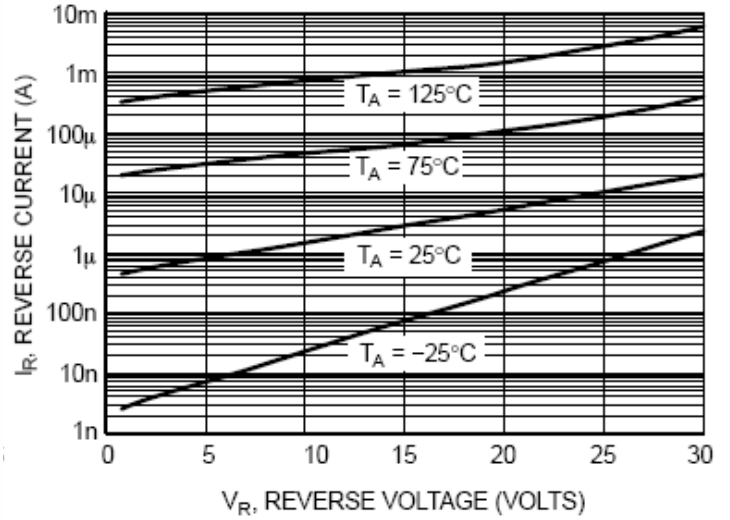
### Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
$B_V$	Breakdown Voltage	$I_R=500\mu\text{A}$	30		Volts
$I_R$	Reverse Leakage Current	$V_R=10\text{V}$		30	$\mu\text{A}$
$V_F$	Forward Voltage	$I_F=200\text{mA}$		0.5	Volts

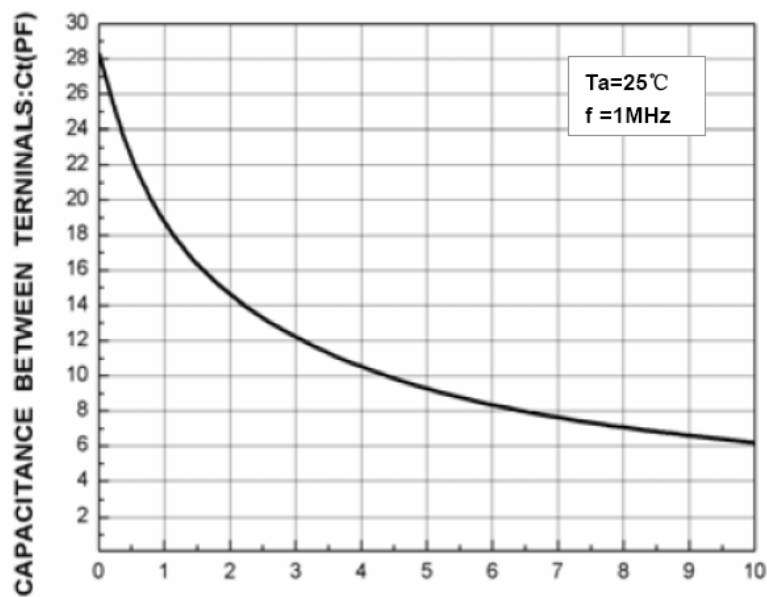
**RATING AND CHARACTERISTIC CURVES**



**Figure 1. Forward Characteristics**



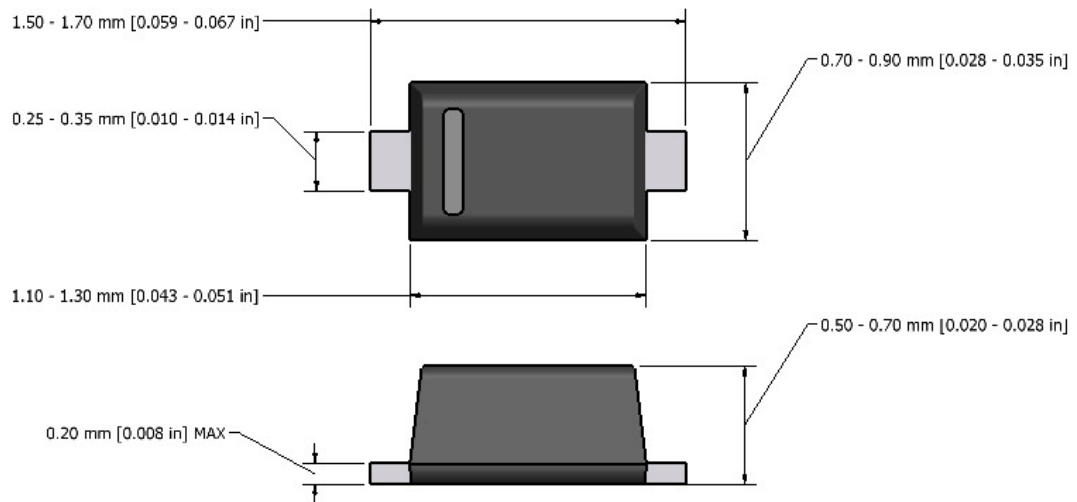
**Figure 2. Reverse Characteristics**



REVERSE VOLTAGE :  $V_R(\text{V})$

**Figure3.Total Capacitance**

**Flat Lead SOD-523 Package Outline**



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