

### 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: C

### 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 (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>			30	uA
Forward Voltage at I <sub>F</sub> =200mA	V <sub>F</sub>			0.5	Volts

## ELECTRICAL CHARACTERISTICS CURVE

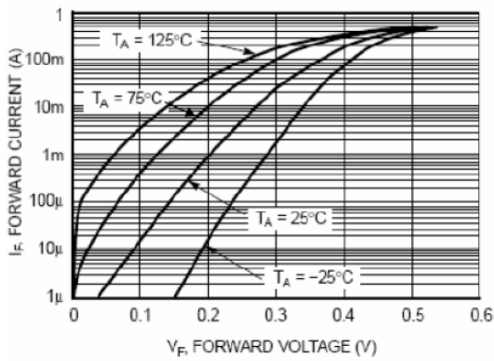


Figure 1. Forward Characteristics

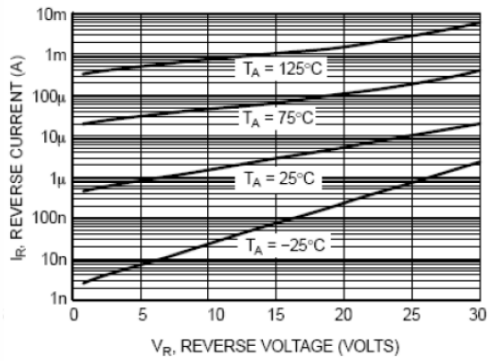


Figure 2. Reverse Characteristics

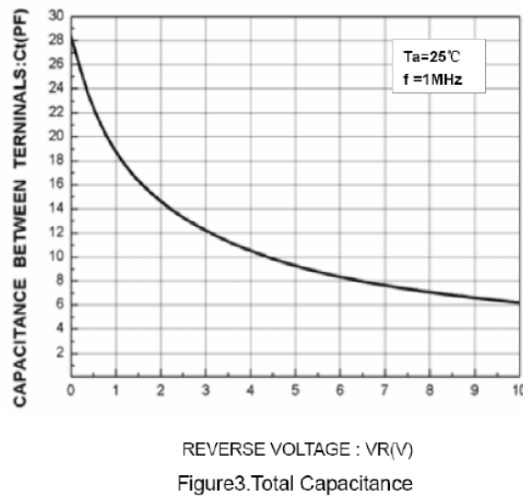
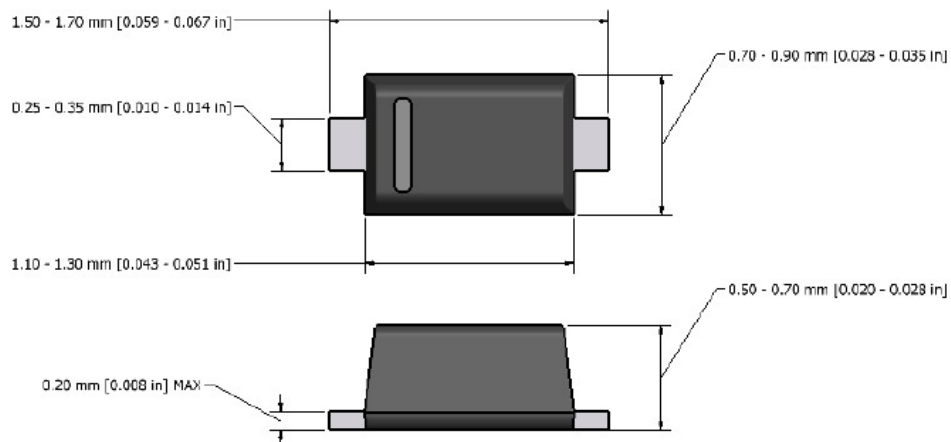


Figure 3. Total Capacitance

## SOD-523 PACKAGE OUTLINE DIMENSIONS



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