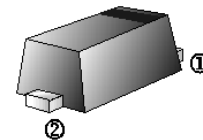


RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## FEATURES

- Low Forward Voltage Drop
- Flat Lead SOD-523 Small Outline Plastic Package
- Extremely Small SOD-523 Package
- Surface Device Type Mounting
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

SOD-523



## MECHANICAL DATA

- Case: SOD-523, Molded Plastic
- Terminals: Solder per MIL-STD-202 Method 208
- Mounting Position: Any

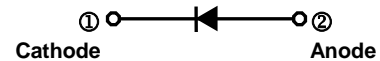
## MARKING

B

JV

## PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-523	8K	7 inch



## ORDER INFORMATION

Part Number	Type
SCS520S-C	Lead (Pb)-free and Halogen-free

## MAXIMUM RATINGS (T<sub>A</sub>=25°C unless otherwise specified)

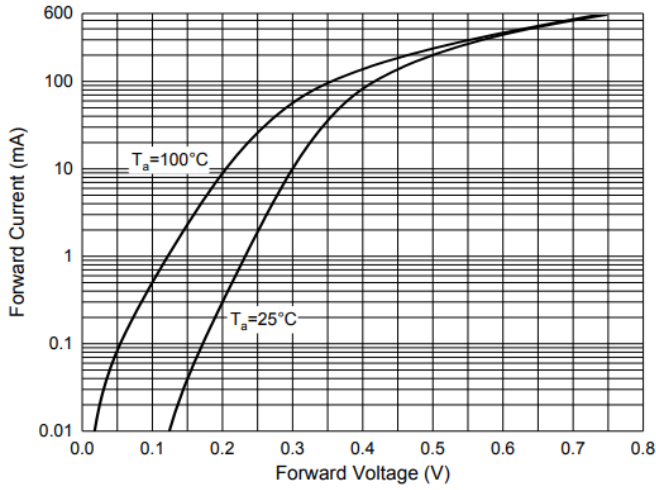
Parameter	Symbol	Ratings	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	30	V
DC Blocking Voltage	V <sub>R</sub>	30	V
Continuous Forward Current	I <sub>o</sub>	200	mA
Non-Repetitive Peak Forward Current @8.3ms Single Half Sine-Wave	I <sub>FSM</sub>	1	A
Power Dissipation	P <sub>D</sub>	200	mW
Operating Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	125, -55~125	°C

## ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise specified)

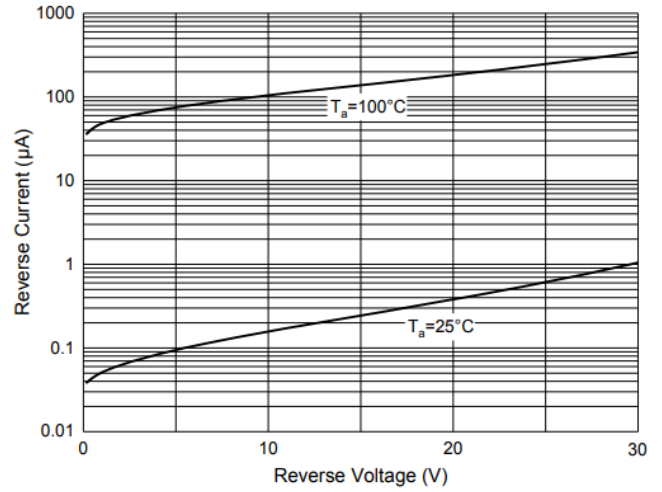
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	V <sub>F</sub>	-	-	0.4	V	I <sub>F</sub> =10mA
		-	-	0.6		I <sub>F</sub> =200mA
Breakdown Voltage	V <sub>BR</sub>	30	-	-	V	I <sub>R</sub> =100μA
Peak Reverse Current	I <sub>R</sub>	-	-	1	μA	V <sub>R</sub> =10V

**TYPICAL CHARACTERISTIC CURVES**

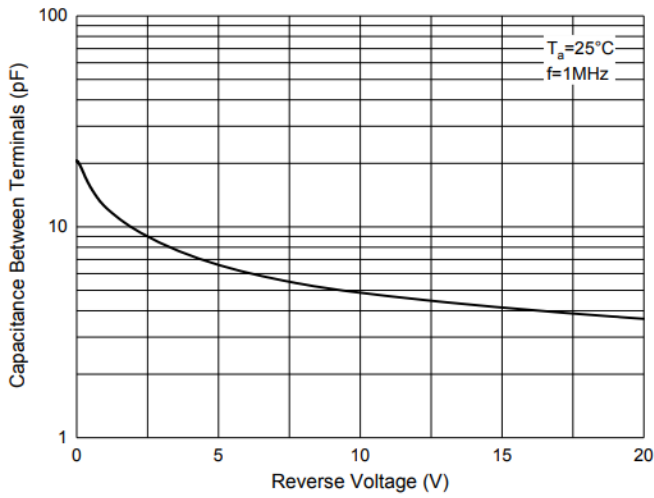
Forward Characteristics



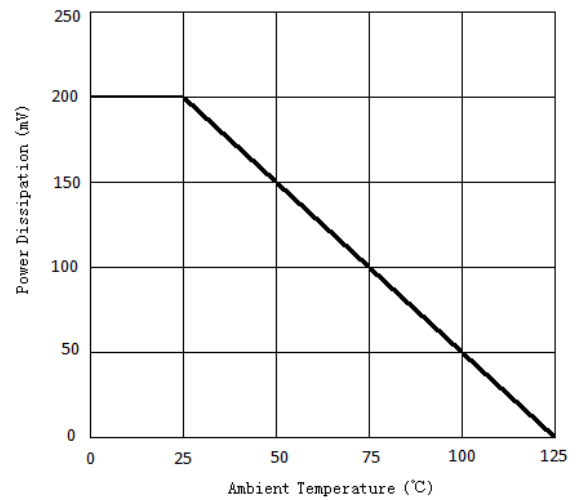
Reverse Characteristics



Capacitance Characteristics

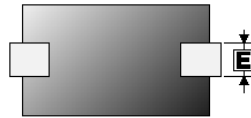
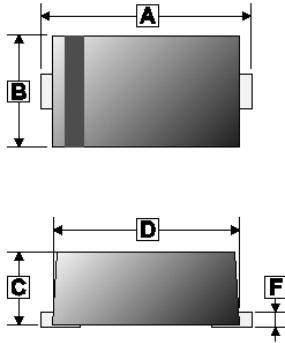


Power Derating Curve



**PACKAGE OUTLINE DIMENSIONS**

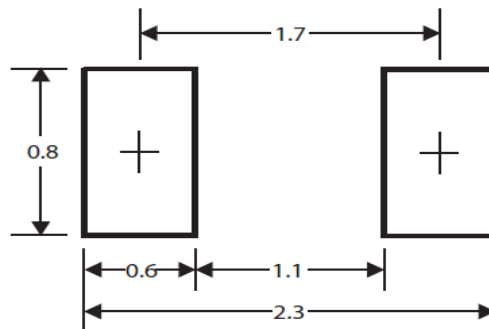
**SOD-523**



REF.	Millimeter	
	Min.	Max.
A	1.50	1.70
B	0.70	0.90
C	0.50	0.77
D	1.10	1.30
E	0.25	0.40
F	0.05	0.20

**MOUNTING PAD LAYOUT**

**SOD-523**



\*Dimensions in millimeters