

**SOD-523**



Marking: C

**Features**

- High Current Capability
- Low Forward Voltage Drop
- Halogen free and RoHS compliant

**Mechanical Data**

- SOD-523 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Epoxy UL: 94V-0
- Mounting Position: Any

**Maximum Ratings & Thermal Characteristics**

(Ratings at 25°C ambient temperature unless otherwise specified.)

Symbol	Parameter	Value	Units
$P_D$	Power Dissipation	200	mW
$T_{STG}$	Storage Temperature Range	-55 to +125	°C
$T_J$	Operating Junction Temperature	+125	°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**

(Ratings at 25°C ambient temperature unless otherwise specified).

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

**Summary of Packing Options**

Package	Packing Description	Packing Quantity	Industry Standard
SOD-523	Tape/Reel, 7" reel	5000	EIA-481-1

## Ratings and Characteristic Curves

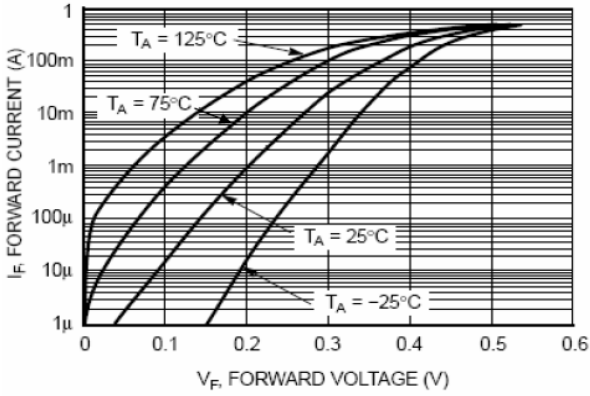


Figure 1. Forward Characteristics

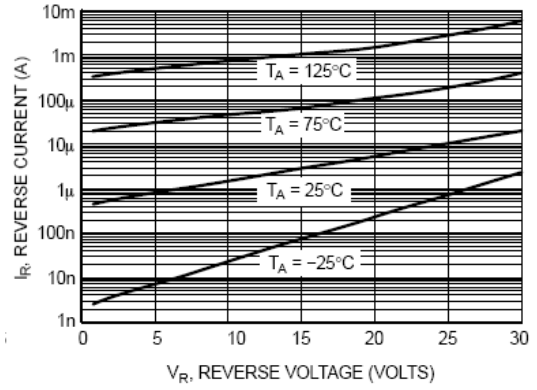
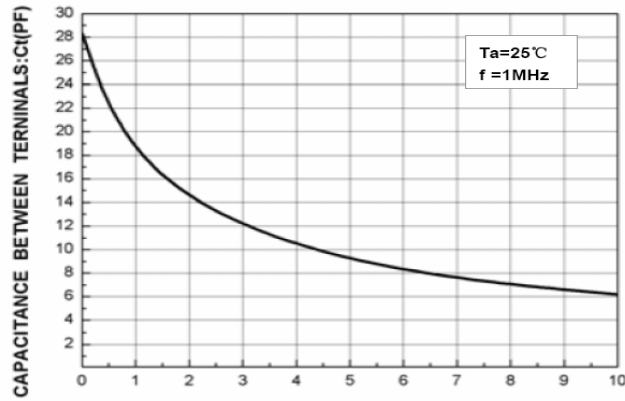
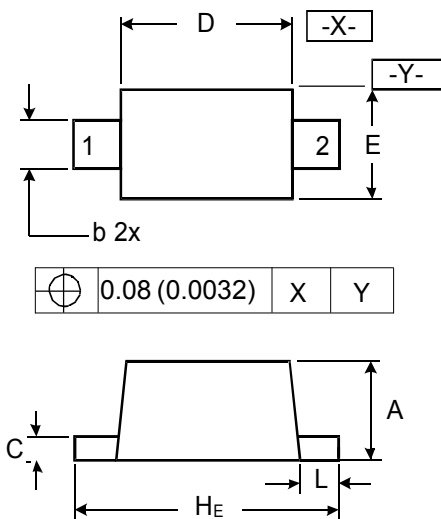


Figure 2. Reverse Characteristics



REVERSE VOLTAGE : V<sub>R</sub>(V)  
Figure3.Total Capacitance

## Package Outline Dimensions: SOD-523



### DIMENSIONS

SYMBOL	MILLIMETER		INCHES	
	MIN	MAX	MIN	MAX
A	0.50	0.70	0.020	0.028
b	0.25	0.35	0.010	0.014
C	0.07	0.20	0.0028	0.0079
D	1.10	1.30	0.043	0.051
E	0.70	0.90	0.028	0.035
H <sub>E</sub>	1.50	1.70	0.059	0.067
L	0.15	0.25	0.006	0.010

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