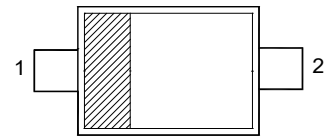


### Features

- High reliability
- Small surface mounting type
- Low reverse current and low forward voltage

### SOD-523



**Marking Code : C**

### Absolute Maximum Ratings at $T_A = 25\text{ }^\circ\text{C}$ (Single Diode)

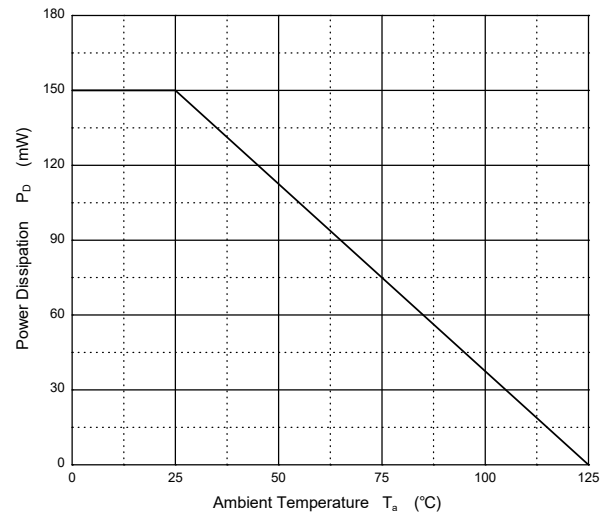
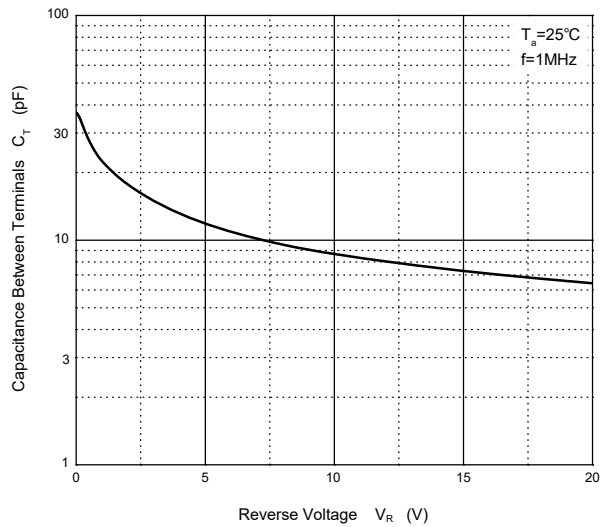
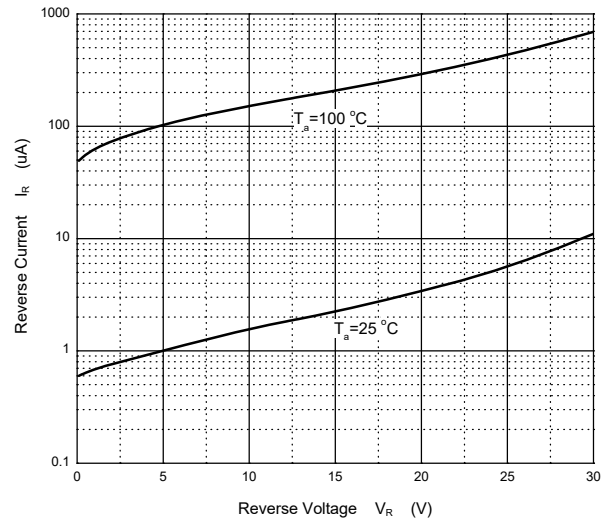
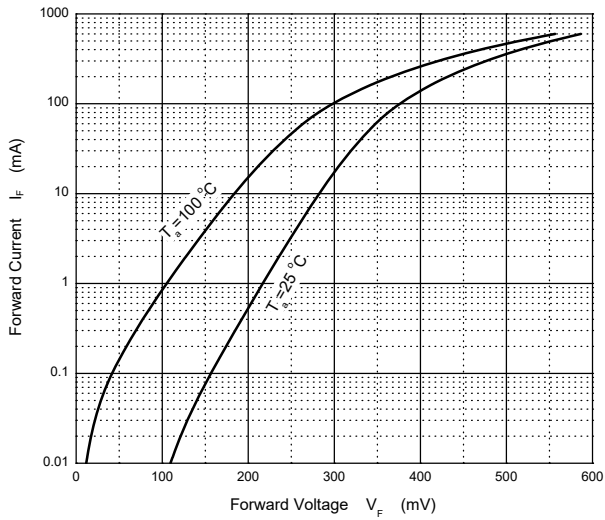
Parameter	Symbols	Value	Unit
Reverse Voltage	$V_R$	30	V
Mean rectifying current	$I_O$	200	mA
Non-Repetitive Peak Forward Surge Current at $t = 8.3\text{ s}$	$I_{FSM}$	1	A
Power Dissipation	$P_D$	150	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	667	$^\circ\text{C/W}$
Junction Temperature	$T_J$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150	$^\circ\text{C}$

### Characteristics at $T_A = 25\text{ }^\circ\text{C}$

Parameter	Symbols	Min.	Typ.	Max.	Unit
Forward Voltage at $I_F = 10\text{ mA}$ at $I_F = 200\text{ mA}$	$V_F$	--	--	0.35 0.5	V
Reverse Current at $V_R = 10\text{ V}$	$I_R$	--	--	30	$\mu\text{A}$



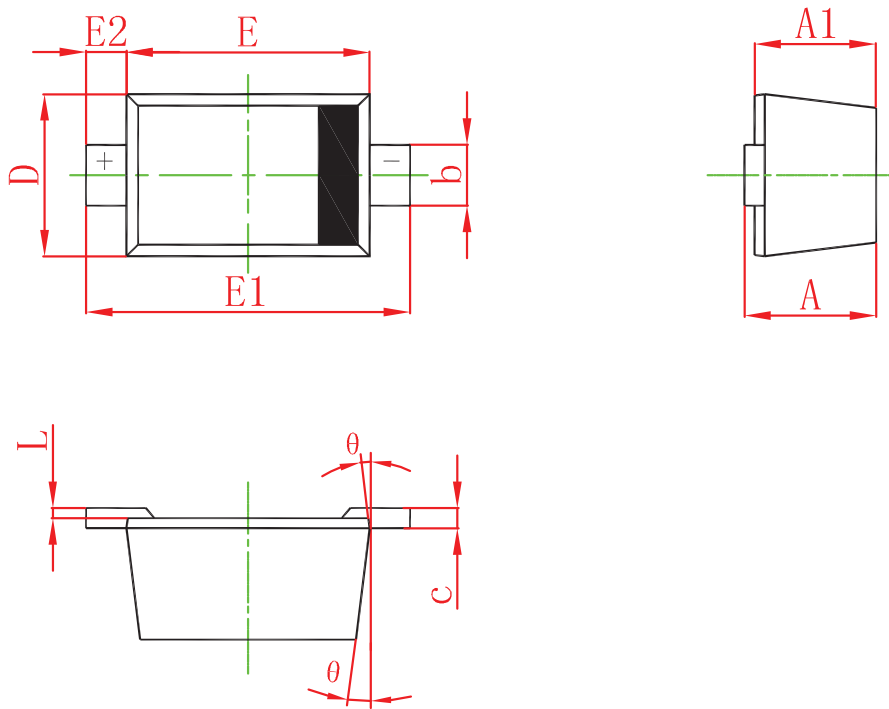
## Typical Characteristic Curves



### Package Outline

SOD-523

Dimensions in mm



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.510	0.770	0.020	0.031
A1	0.500	0.700	0.020	0.028
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	0.750	0.850	0.030	0.033
E	1.100	1.300	0.043	0.051
E1	1.500	1.700	0.059	0.067
E2	0.200 REF		0.008 REF	
L	0.010	0.070	0.001	0.003
K	7° REF		7° REF	