

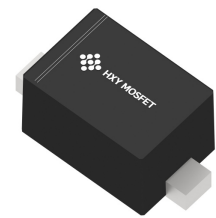


## Features

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

## Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
NSVRB521S30T5G	SOD-523	C	3000



SOD-523



## Maximum Ratings (Ta=25°C unless otherwise noted)

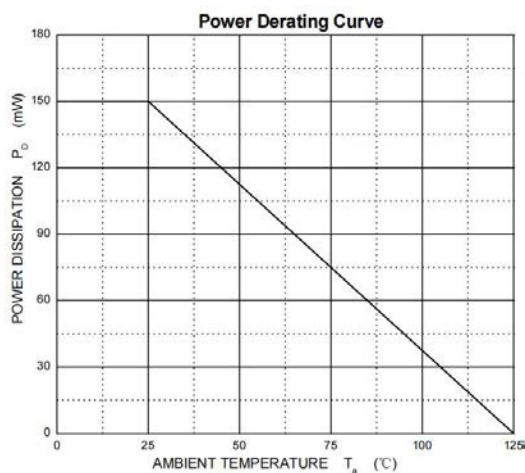
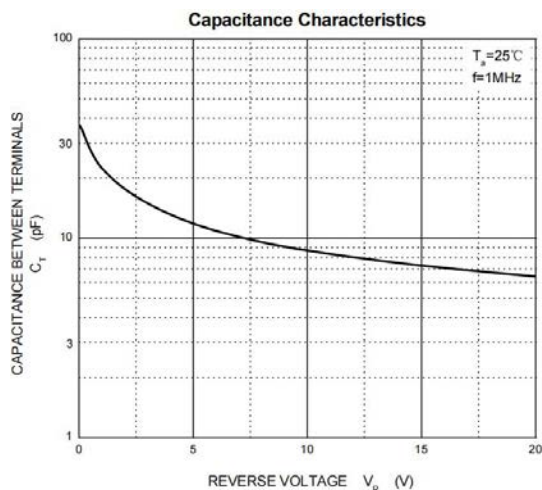
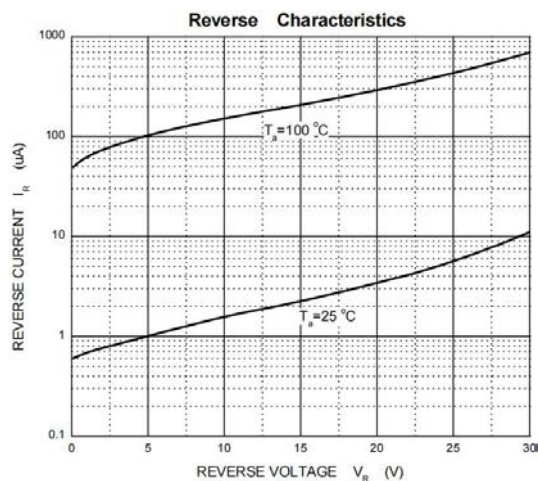
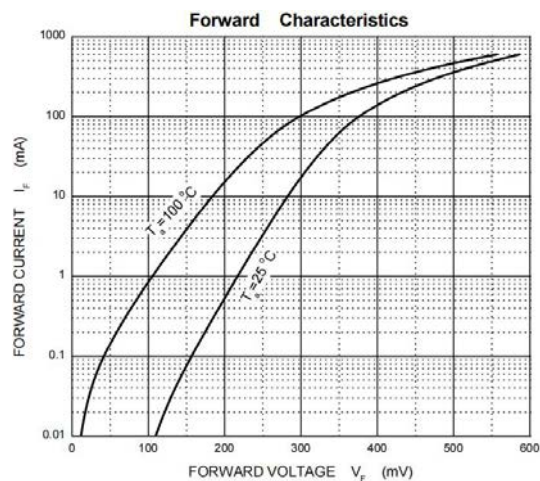
Symbol	Parameter	Value	Unit
$V_R$	DC reverse voltage	30	V
$I_o$	Mean rectifying current	200	mA
$I_{FSM}$	Non-repetitive Peak Forward Surge Current@8.3mS	1000	mA
$P_d$	Power Dissipation	150	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	667	°C/W
$T_J$	Operation Junction Temperature Range	-40~+125	°C
$T_{STG}$	Storage Temperature Range	-55~+150	°C

## Electrical Characteristics (Ta=25°C unless otherwise noted)

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$I_R$	Reverse voltage leakage current	$V_R=10V$			30	$\mu A$
$V_F(1)$	Forward voltage	$I_F=10mA$			0.35	V
$V_F(2)$		$I_F=200mA$			0.50	V

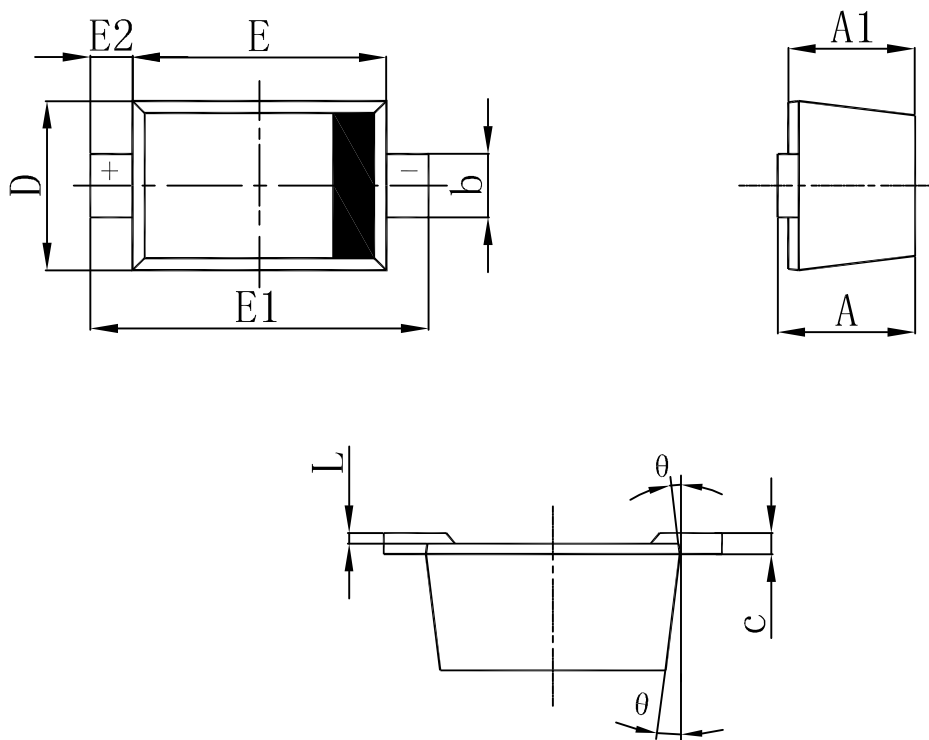


## Typical Characteristics





### SOD-523 Package Outline Dimensions



Symbol	imensions In Millimeters		imensions 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
$\theta$	7° REF		7° REF	



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