



## Features

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



SOD-523



## Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
RB521S30_R1_00001	SOD-523	C	3000

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

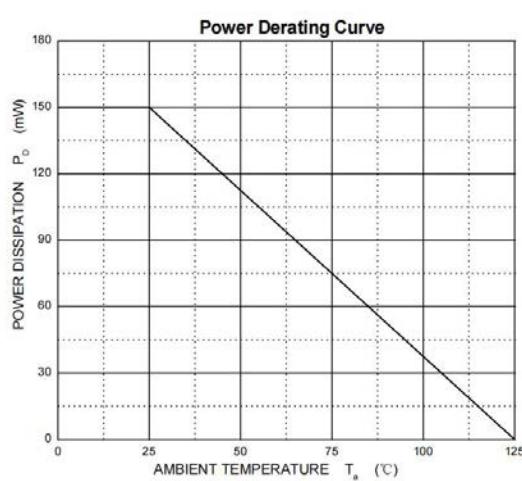
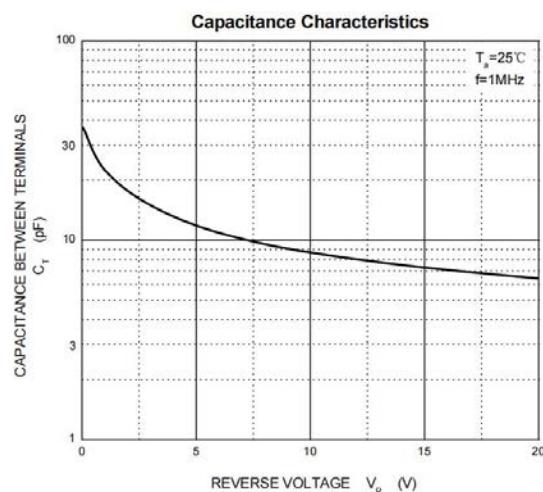
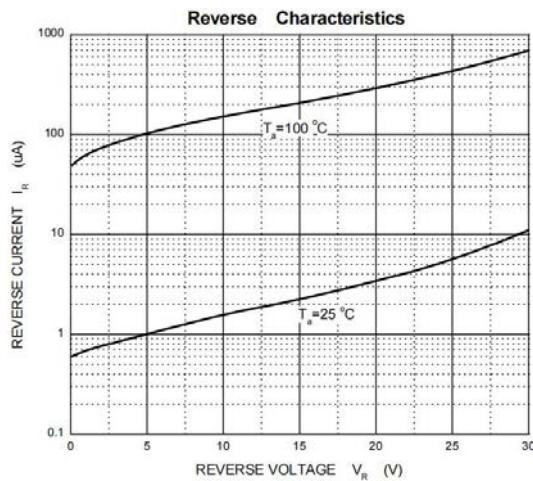
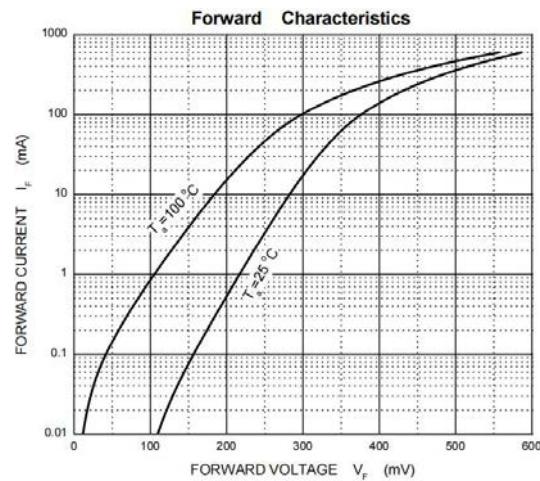
Symbol	Parameter	Value	Unit
V <sub>R</sub>	DC reverse voltage	30	V
I <sub>o</sub>	Mean rectifying current	200	mA
I <sub>FSM</sub>	Non-repetitive Peak Forward Surge Current@8.3mS	1000	mA
P <sub>d</sub>	Power Dissipation	150	mW
R <sub>θJA</sub>	Thermal Resistance From Junction To Ambient	667	°C/W
T <sub>J</sub>	Operation Junction Temperature Range	-40~+125	°C
T <sub>STG</sub>	Storage Temperature Range	-55~+150	°C

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

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
I <sub>R</sub>	Reverse voltage leakage current	V <sub>R</sub> =10V			30	µA
V <sub>F(1)</sub>	Forward voltage	I <sub>F</sub> =10mA			0.35	V
V <sub>F(2)</sub>		I <sub>F</sub> =200mA			0.50	V

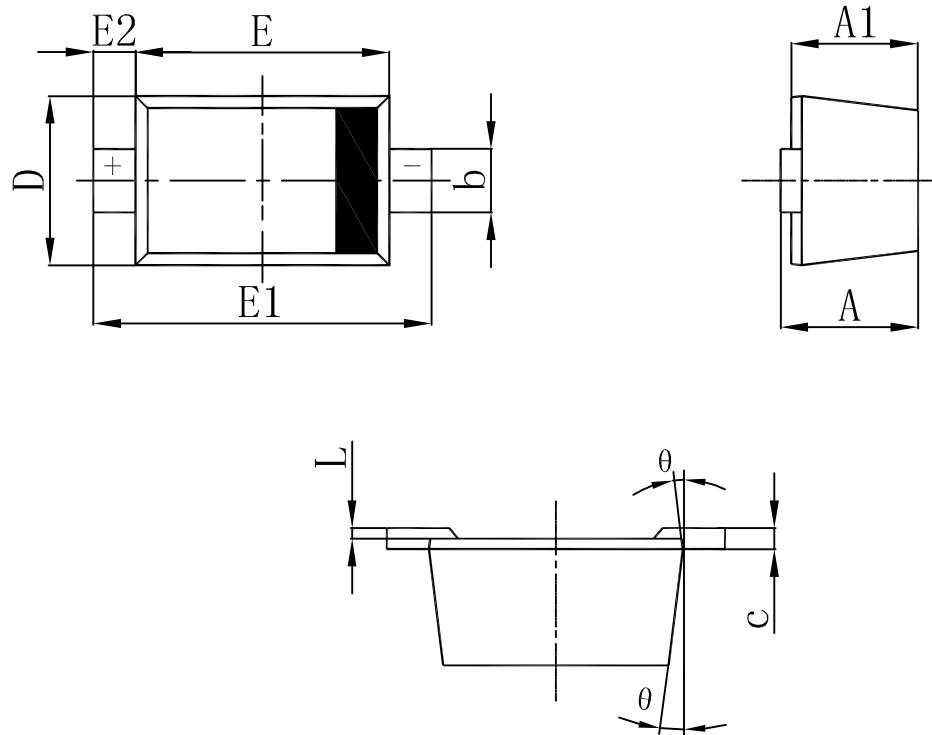


## Typical Characteristics





### SOD-523 Package Outline Dimensions



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
θ	7° REF		7° REF	



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