



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-AU_R1_000A1	SOD-523	C	3000

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

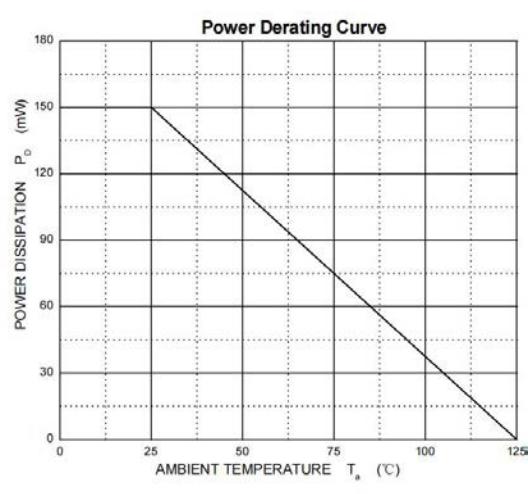
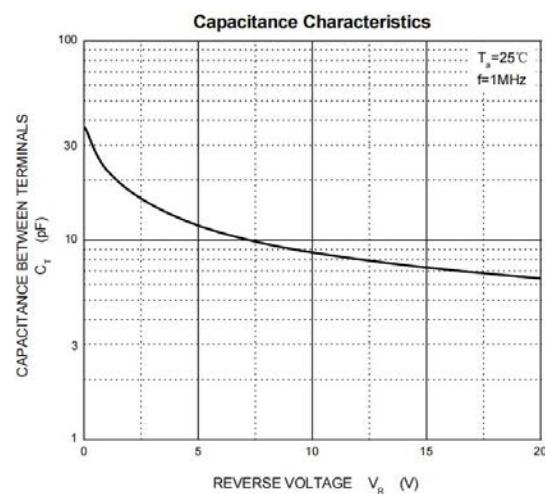
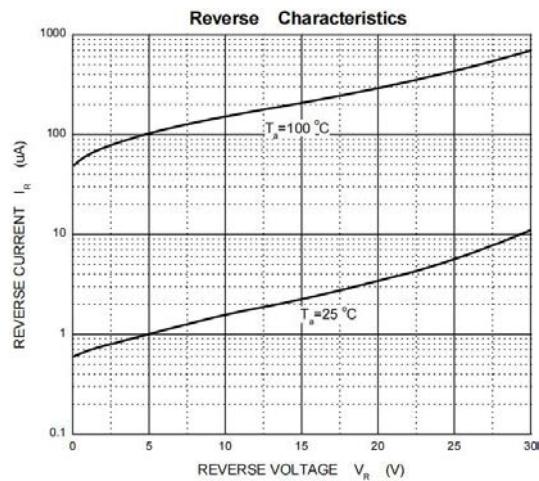
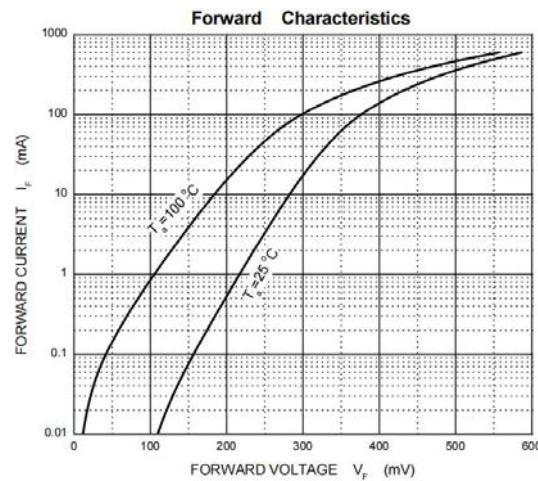
Symbol	Parameter	Value	Unit
V _R	DC reverse voltage	30	V
I _o	Mean rectifying current	200	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current@8.3mS	1000	mA
P _d	Power Dissipation	150	mW
R _{θJA}	Thermal Resistance From Junction To Ambient	667	°C/W
T _J	Operation Junction Temperature Range	-40~+125	°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	μA
V _{F(1)}	Forward voltage	I _F =10mA			0.35	V
V _{F(2)}		I _F =200mA			0.50	V

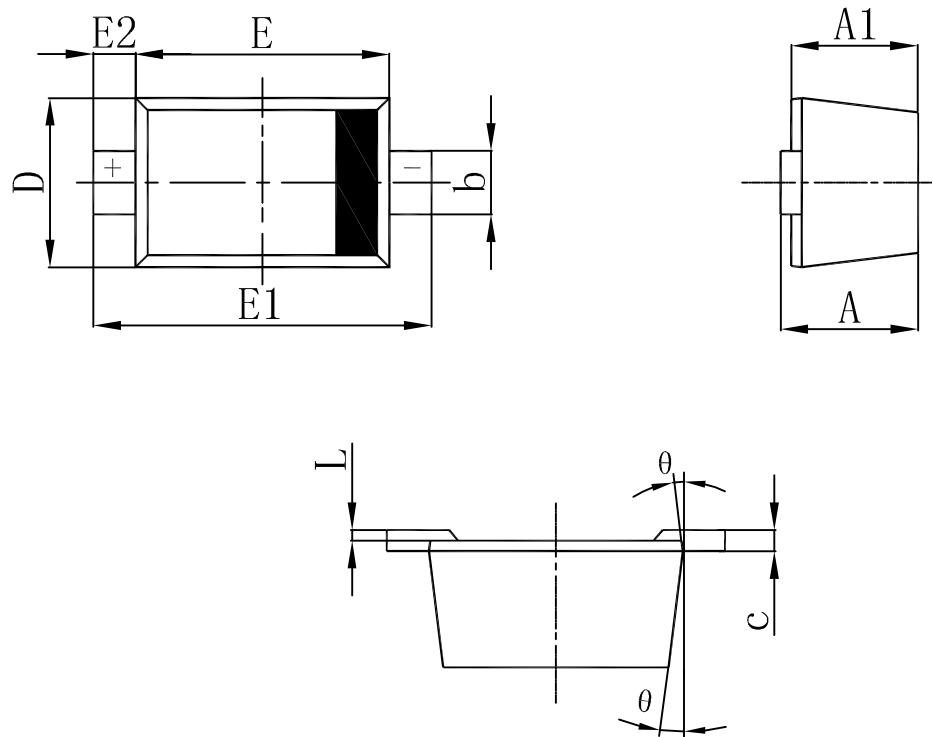


Typical Characteristics





SOD-523 Package Outline Dimensions



Symbol	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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