



Features

Small surface mounting type.

Low reverse current.

High reliability.

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
RB520SM-30T2R	SOD-523	B	3000



SOD-523



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

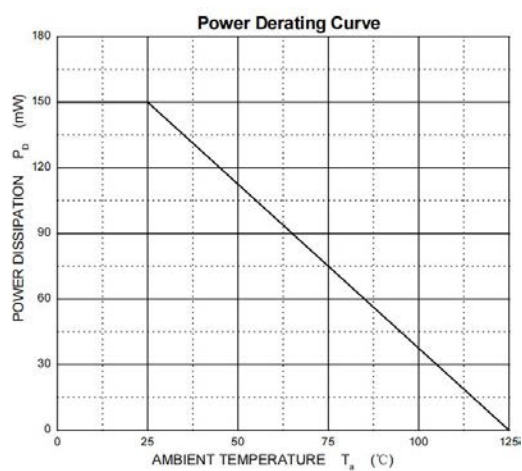
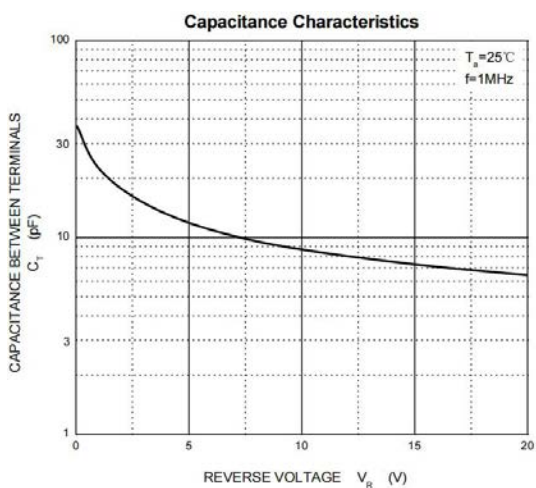
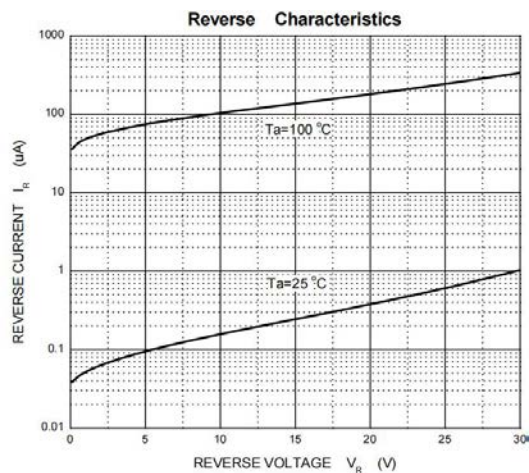
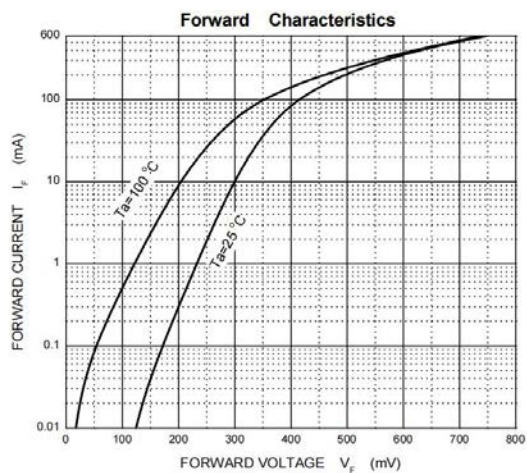
Symbol	Parameter	Value	Unit
V_R	DC reverse voltage	30	V
I_o	Mean rectifying current	200	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current@8.3mS	1000	mA
P_d	Power Dissipation	150	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	667	°C/W
T_J	Operation Junction Temperature Range	-40~+125	°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	$V_R=10V$			1	μA
V_F	Forward voltage	$I_F=200mA$			0.60	V

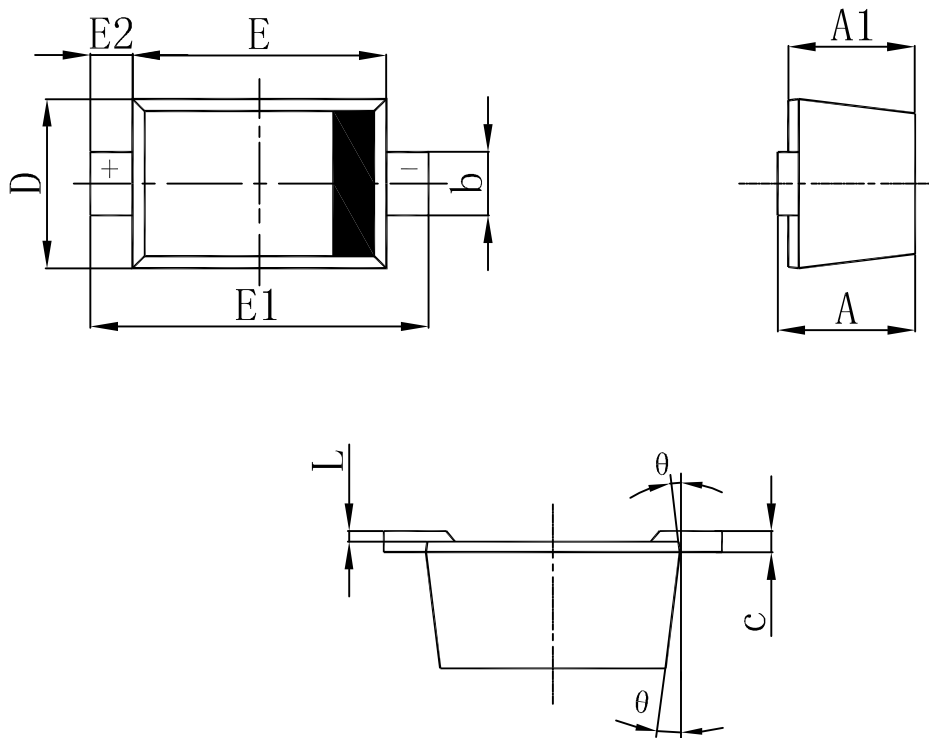


Typical Characteristics





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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