

#### **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)
RB521S-30	SOD-523	С	3000



**SOD-523** 



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

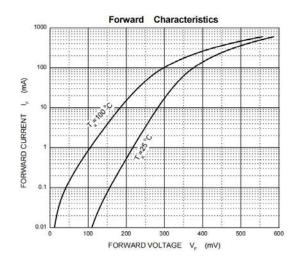
Symbol	Parameter	Value	Unit
V <sub>R</sub>	DC reverse voltage	30	V
lo	Mean rectifying current	200	mA
IFSM	Non-repetitive Peak Forward Surge Current@8.3mS	1000	mA
P <sub>d</sub>	Power Dissipation	150	mW
R <sub>OJA</sub>	Thermal Resistance From Junction To Ambient	667	°C/W
TJ	Operation Junction Temperature Range	-40~+125	$^{\circ}$
T <sub>STG</sub>	Storage Temperature Range	-55~+150	${\mathbb C}$

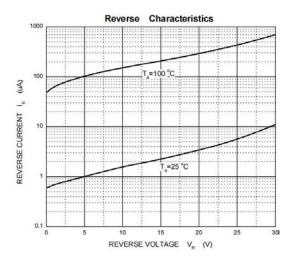
### **Electrcal Charcteristics (Ta=25°C unless otherwise noted)**

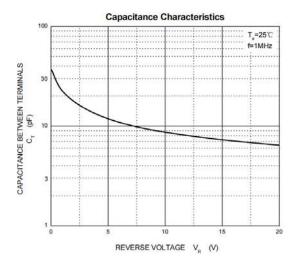
Symbol	Parameter	Test conditions	Min	Тур	Max	Unit
I <sub>R</sub>	Reverse voltage leakage	V <sub>R</sub> =10V			30	uА
	current	VR-10V			30	μΑ
V <sub>F</sub> (1)	Forward voltage	I <sub>F</sub> =10mA			0.35	V
V <sub>F</sub> (2)	Forward voitage	I <sub>F</sub> =200mA			0.50	V

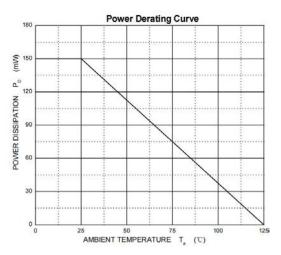


# **Typical Characteristics**



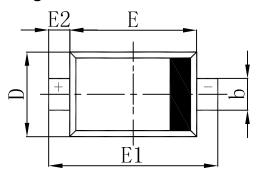


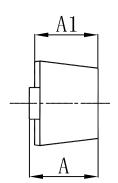


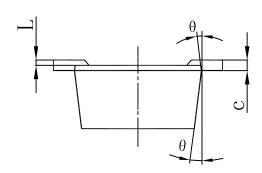




# **SOD-523 Package Outline Dimensions**







Symbol	imensions In Millimeters		imensions In Inches		
	Min	Max	Min	Max	
Α	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	
С	0.080	0.150	0.003	0.006	
D	0.750	0.850	0.030	0.033	
Е	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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