

SOD-523 Plastic-Encapsulate Diodes

• Features

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



SOD-523

• MAXIMUM RATINGS (T_C=25°C)

Parameter	Symbol	Limit	Unit
DC reverse voltage	V _R	30	V
Mean rectifying current	I _O	0.2	A
Non-repetitive peak forward surge current@t=8.3ms	I _{FSM}	1	A
Power Dissipation	P _D	150	mW
Thermal resistance from junction to ambient	R _{θJA}	667	°C/W
Operating Junction Temperature Range	T _J	-40~+125	°C
Storage Temperature Range	T _{STG}	-55~+150	°C

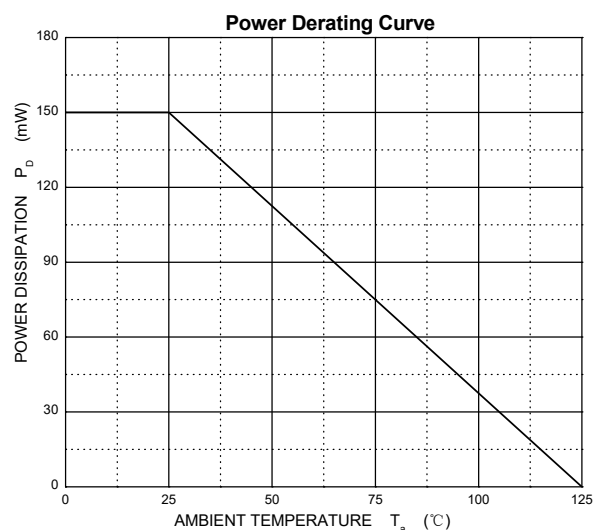
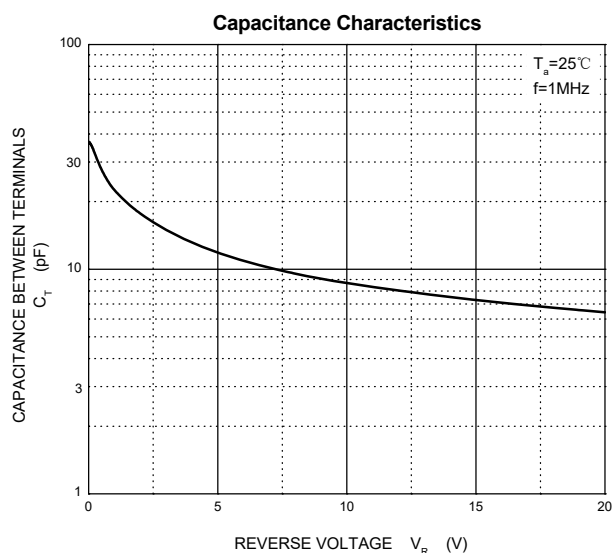
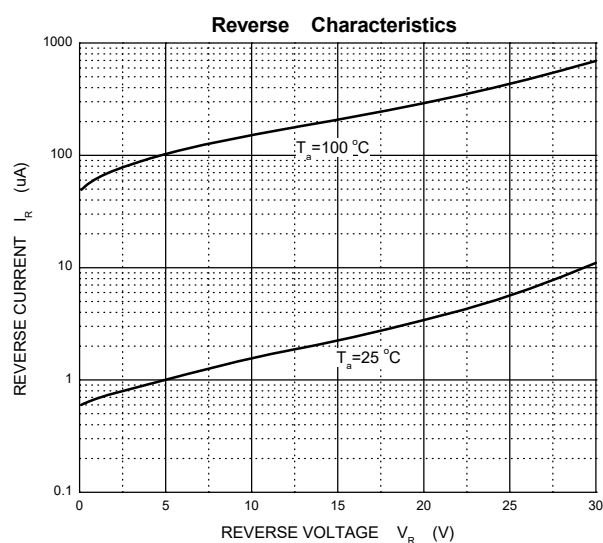
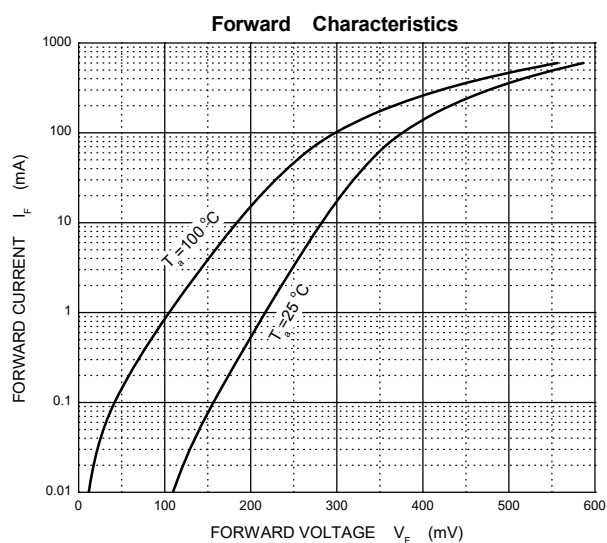
• ELECTRICAL CHARACTERISTICS (T_a=25°C)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V _F	I _F =10mA			0.35	V
		I _F =200mA			0.5	V
Reverse current	I _R	V _R =10V			30	μA

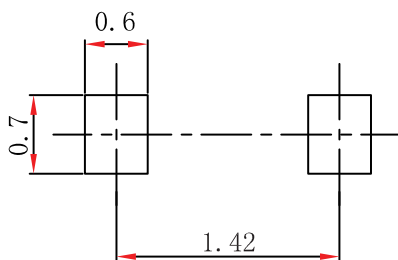
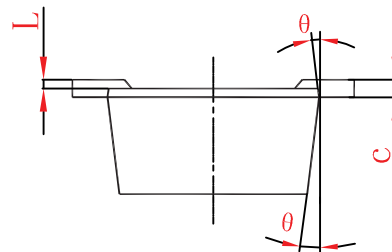
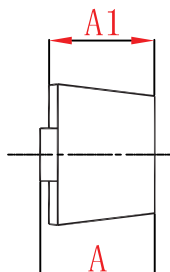
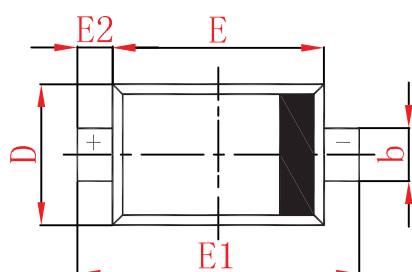
• Ordering Information:

Part NO.	RB521S-30
Marking	C
Packing Information	REEL TAPE
Basic ordering unit (pcs)	3000

• Typical Characteristics



SOD-523 Package Outline Dimensions



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.

Sym ol	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
θ	7° REF		7° REF	