

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
Peak reverse voltage	V _{RM}	40	V
DC reverse voltage	V _R	40	V
Mean rectifying current	I _O	30	mA
Non-repetitive Peak Forward Surge Current@t=8.3ms	I _{FSM}	200	mA
Power dissipation	P _D	150	mW
Thermal Resistance 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

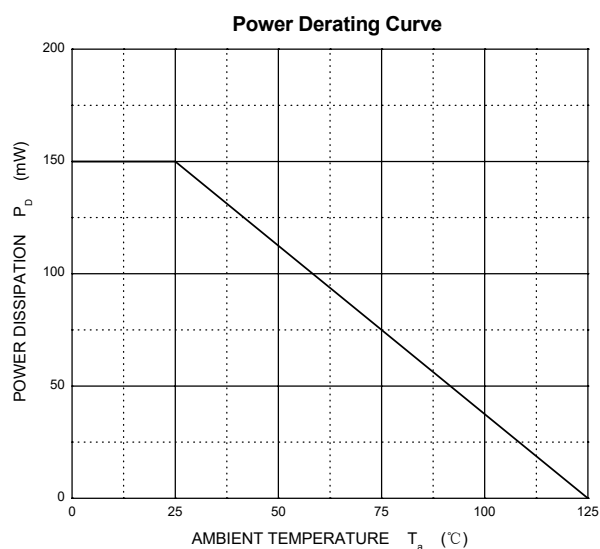
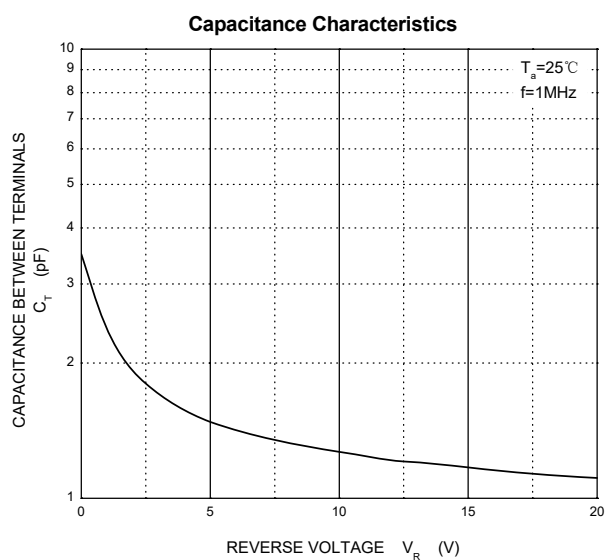
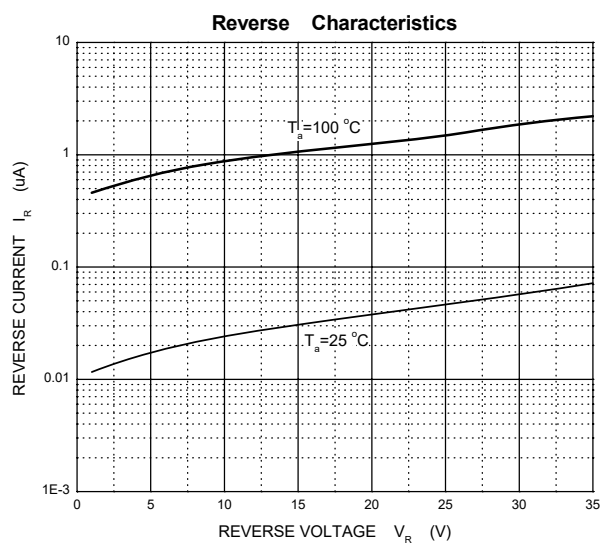
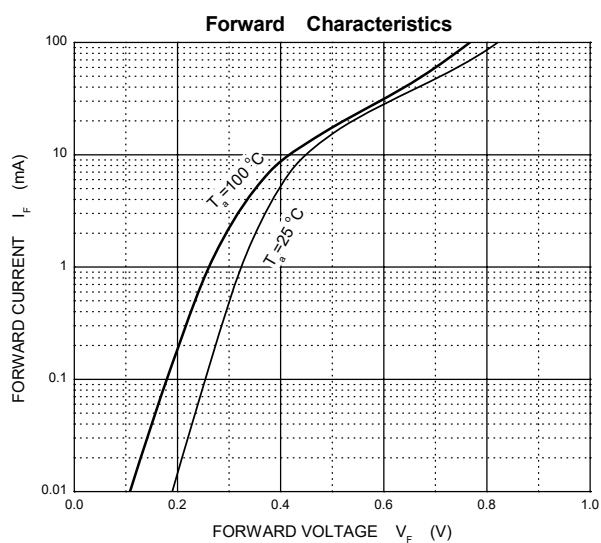
• ELECTRICAL CHARACTERISTICS (T_a=25°C)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse voltage	V _(BR)	I _R =1mA	40			V
Forward voltage	V _F	I _F =1mA	0.20		0.37	V
Reverse current	I _R	V _R =30V	0.01		0.5	μA
Capacitance between terminals	C _T	V _R =1V, f=1MHZ	0.5	2	10	pF

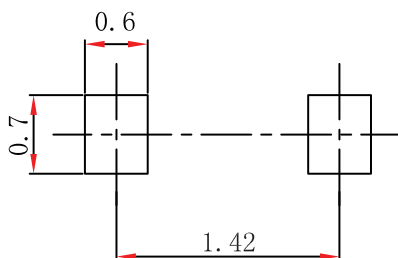
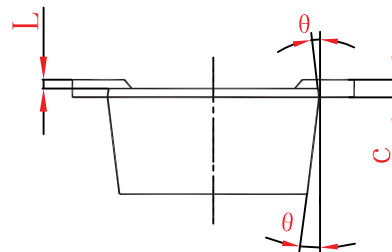
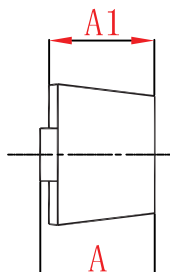
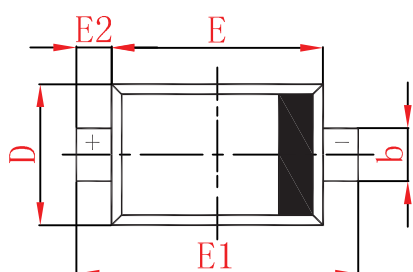
• Ordering Information:

Part NO.	RB751S-40
Marking	5
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	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	