

SOD-523

MARKING: 5

FEATURES

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

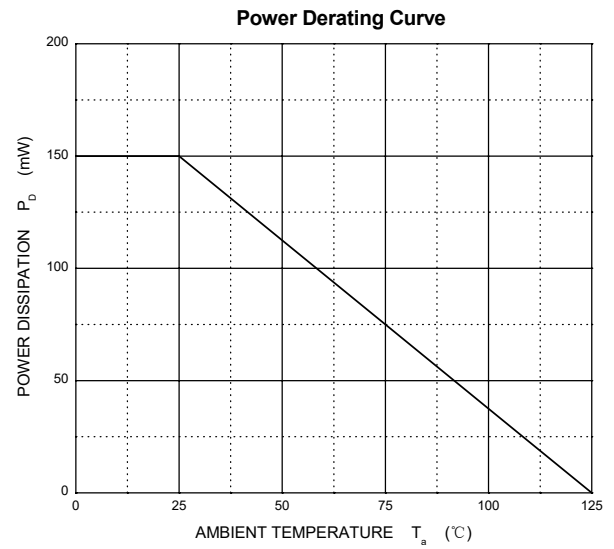
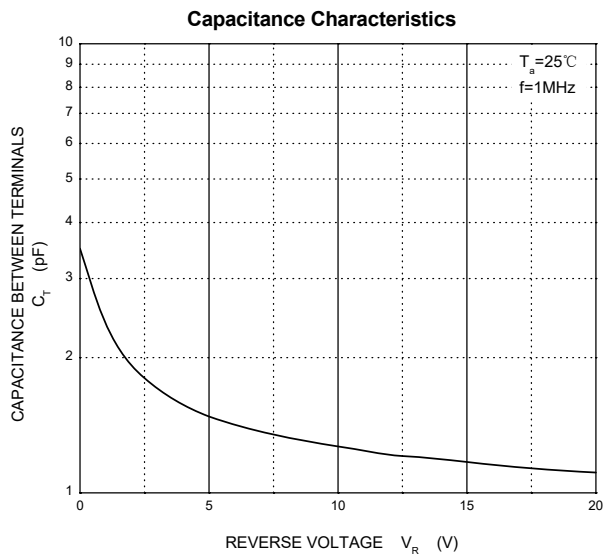
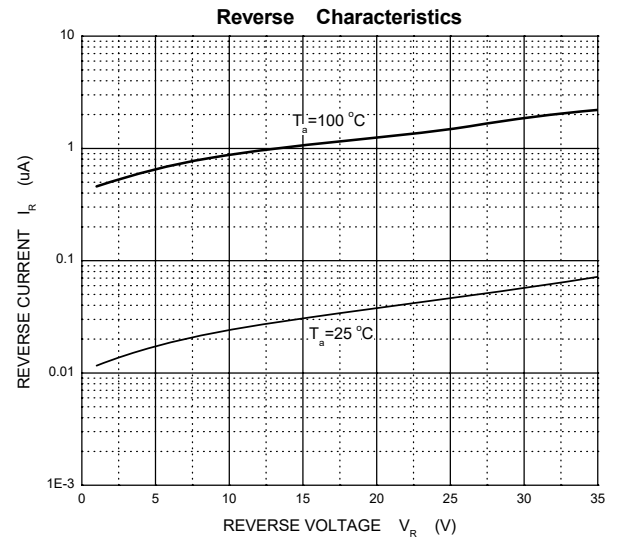
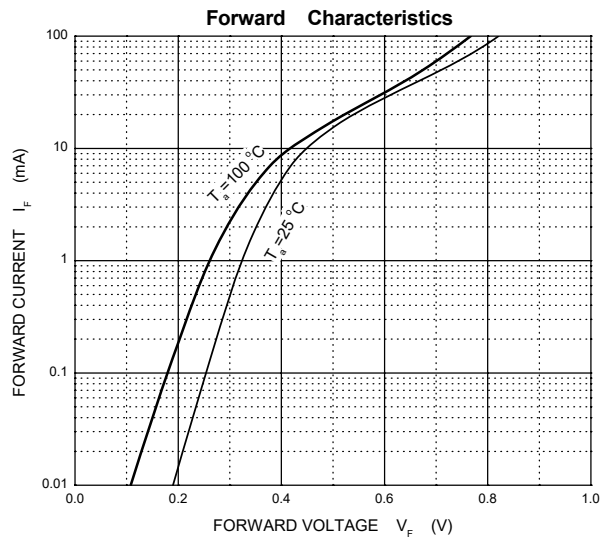
Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

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	$R_{\theta JA}$	667	°C/W
Operating Junction Temperature Range	T_J	-40 ~ +125	°C
Storage Temperature Range	T_{stg}	-55 ~ +150	°C

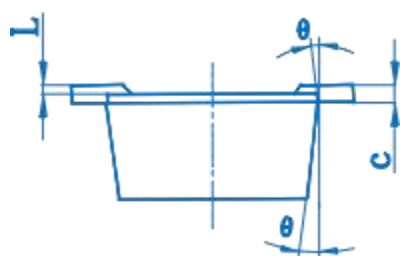
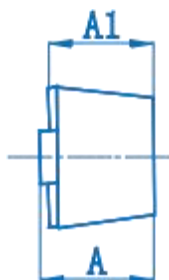
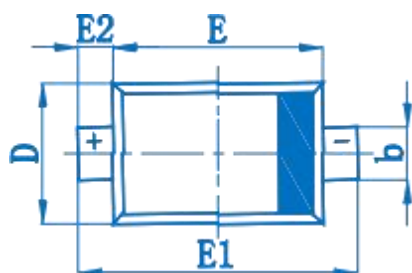
Electrical Ratings @Ta=25°C

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse voltage	$V_{(BR)}$	40			V	$I_R=1mA$
Forward voltage	V_F	0.20		0.37	V	$I_F=1mA$
Reverse current	I_R	0.01		0.5	μA	$V_R=30V$
Capacitance between terminals	C_T	0.5	2	10	pF	$V_R=1V, f=1MHz$

Typical Characteristics

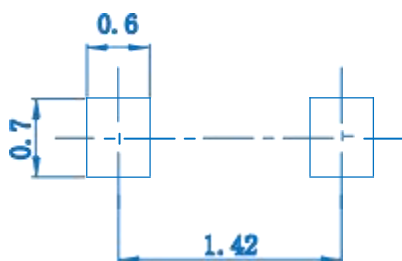


SOD-523 Package Outline Dimensions



symbol	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	

SOD-523 Suggested Pad Layout



Note:

1. Controlling dimension: In millimeters.
2. General tolerance: ± 0.05 mm.
3. The pad layout is for reference purposes only.