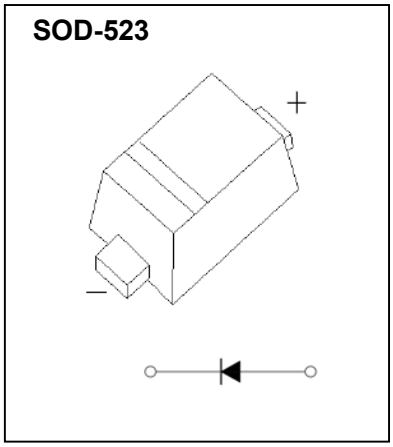
SOD-523 Plastic-Encapsulate Diodes



FEATURES

- Small surface mounting type
- Low I_R
- High reliability

MARKING: D1



D1=Device code
The marking bar indicates the cathode

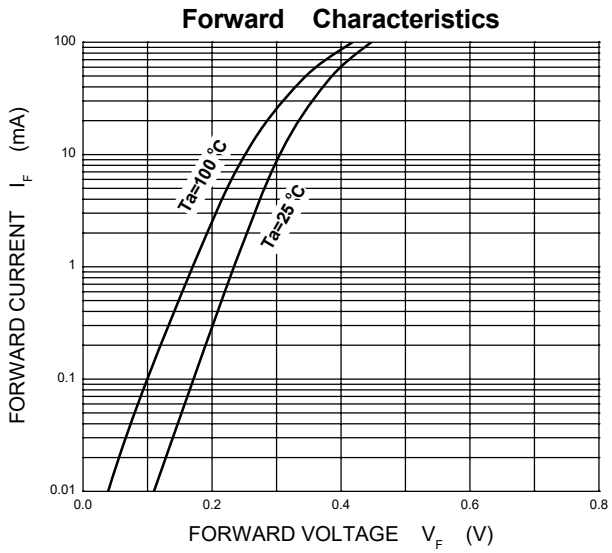
Maximum Ratings and Electrical Characteristics, Single Diode @T_A=25℃

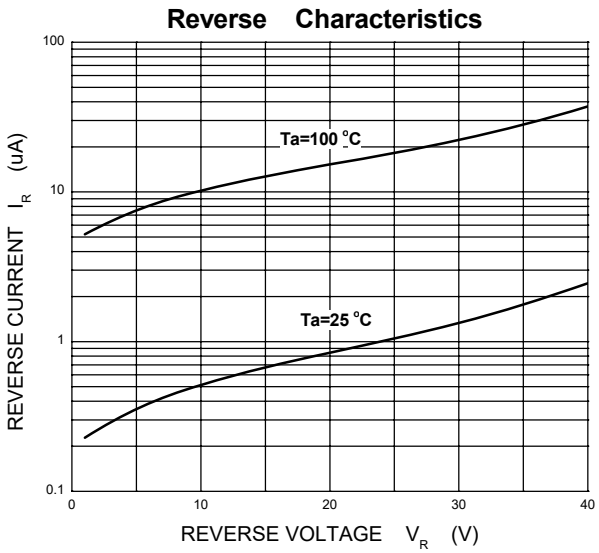
Parameter	Symbol	Limit	Unit
DC reverse voltage	V_R	40	V
Mean rectifying current	I_O	0.2	A
Non-repetitive peak forward surge current@t=8.3ms	I_{FSM}	1	A
Power Dissipation	P_D	150	mW
Thermal resistance from junction to ambient	$R_{\theta JA}$	667	℃/W
Operating Junction Temperature Range	T_J	-40~+125	℃
Storage Temperature Range	T_{STG}	-55~+150	

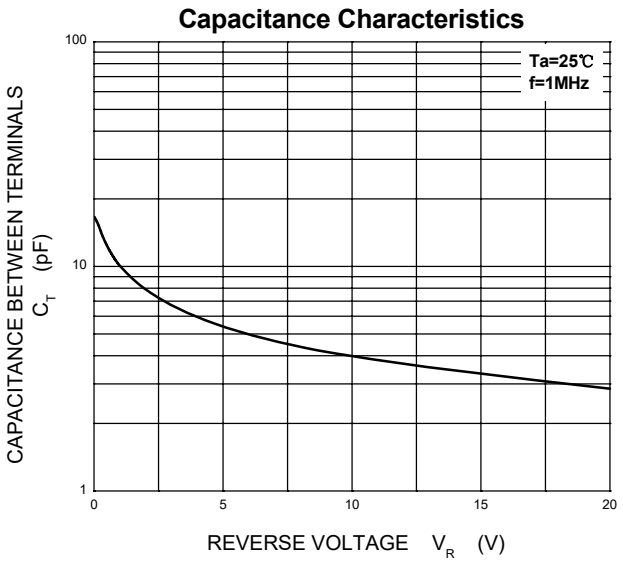
Electrical Ratings @T_A=25℃

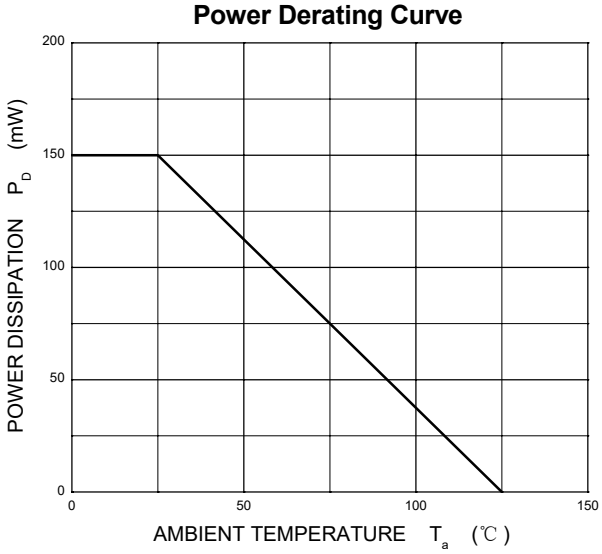
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	V_F		0.304 0.446	0.39 0.55	V	I_F=10mA I_F=100mA
Reverse current	I_R		0.605 2.837	1 10	μA	V_R=10V V_R=40V

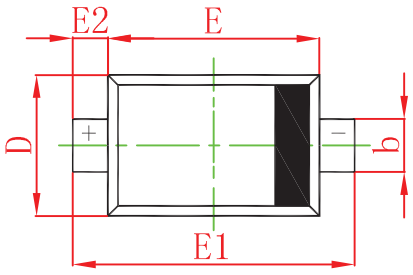
Typical Characteristics

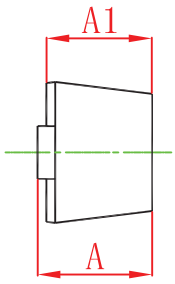


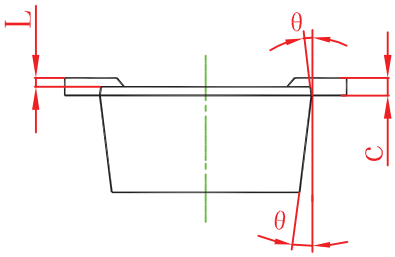






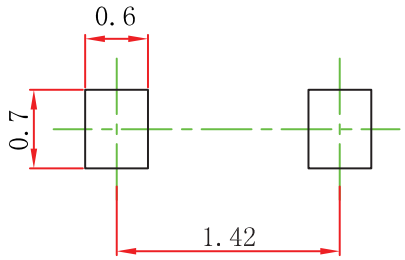






Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.510	0.770	0.020	0.031
A1	0.500	0.700	0.020	0.028
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	0.750	0.850	0.030	0.033
E	1.100	1.300	0.043	0.051
E1	1.500	1.700	0.059	0.067
E2	0.200 REF		0.008 REF	
L	0.010	0.070	0.001	0.003
θ	7° REF		7° REF	

SOD-523 Suggested Pad Layout



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