

FEATURES

Small surface mounting type

Low forward voltage

High reliability

SOD-123



MARKING: 74

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

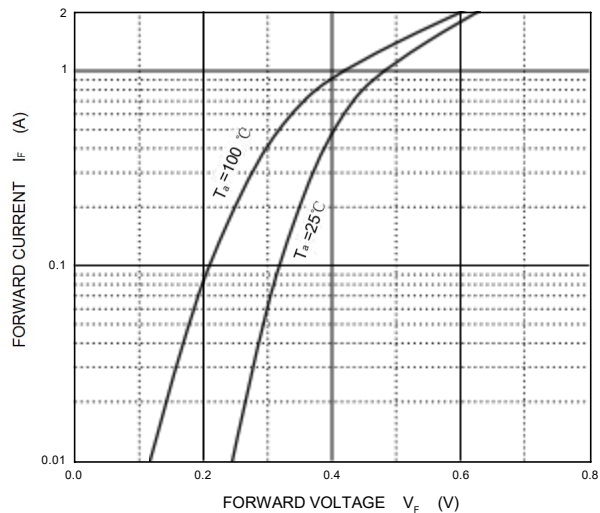
Parameter	Symbol	Limits	Unit
DC reverse voltage	V _R	40	V
Mean rectifying current	I _O	1	A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	15	A
Power Dissipation	P _D	350	mW
Thermal Resistance Junction to Ambient	R _{θJA}	200	°C/W
Operating Junction Temperature Range	T _J	-40 ~ +125	°C
Storage Temperature Range	T _{stg}	-55 ~ +150	°C

Electrical Ratings @T_A=25°C

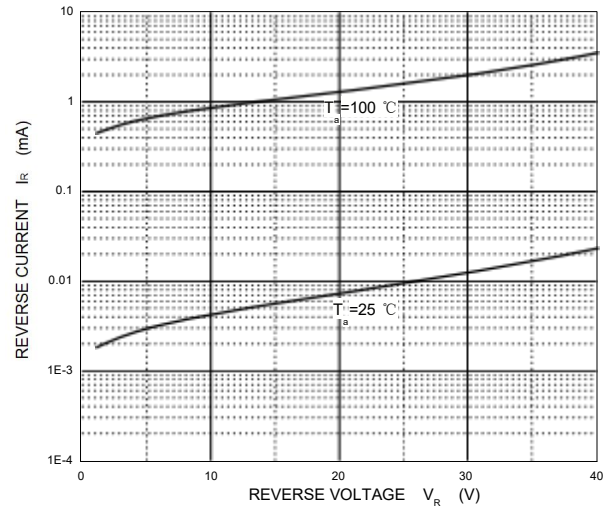
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V _F			0.51	V	I _F =1A
Reverse current	I _R			30	μA	V _R =40V

Typical Characteristics

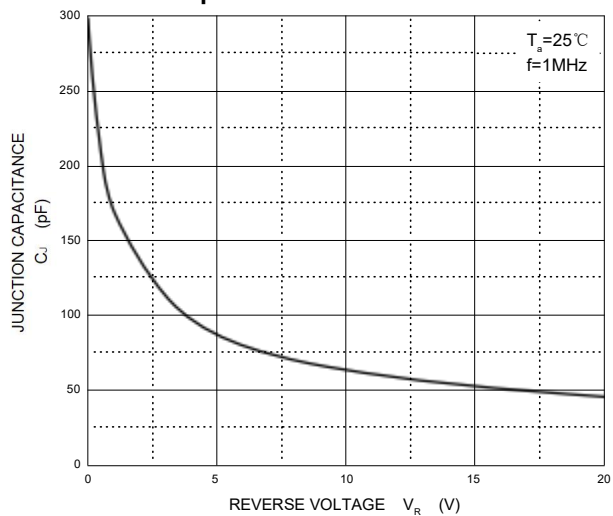
Forward Characteristics



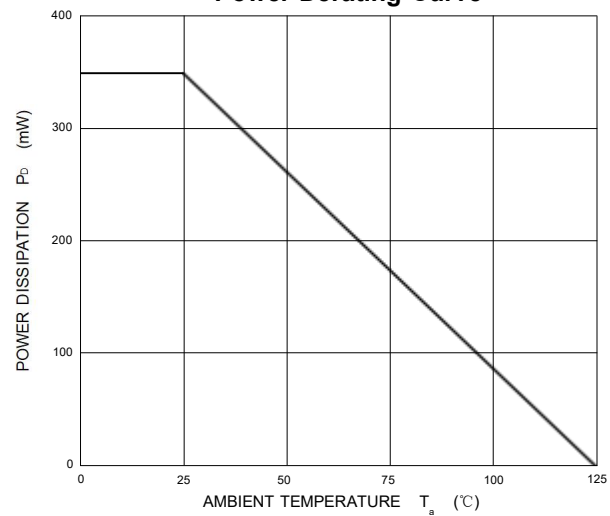
Reverse Characteristics



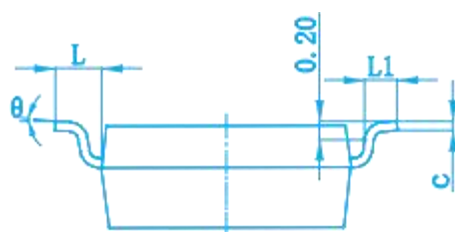
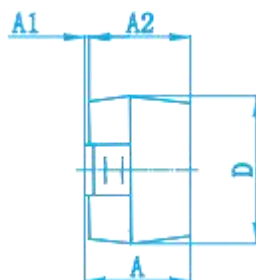
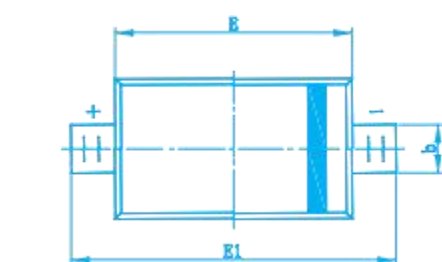
Capacitance Characteristics



Power Derating Curve

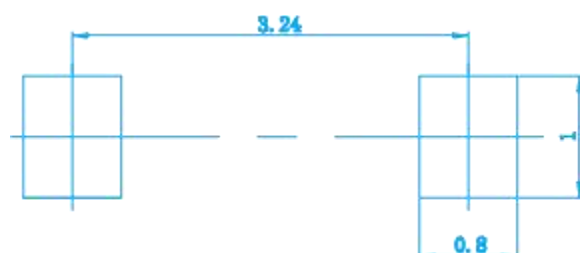


SOD-123 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.450	0.650	0.018	0.026
c	0.080	0.150	0.003	0.006
D	1.500	1.700	0.059	0.067
E	2.600	2.800	0.102	0.110
E1	3.550	3.850	0.140	0.152
L	0.500 REF		0.020 REF	
L1	0.250	0.450	0.010	0.018
θ	0°	8°	0°	8°

SOD-123 Suggested Pad Layout



Note:

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