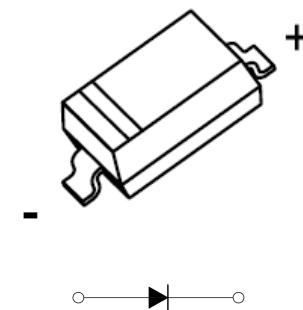




SCHOTTKY BARRIER DIODE

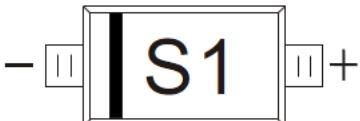
SOD-123



FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Negligible Reverse Recovery Time

MARKING: S1



The marking bar indicates the cathode

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

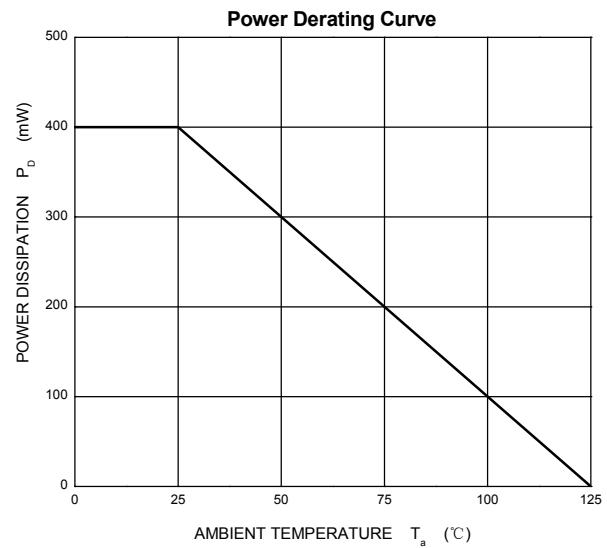
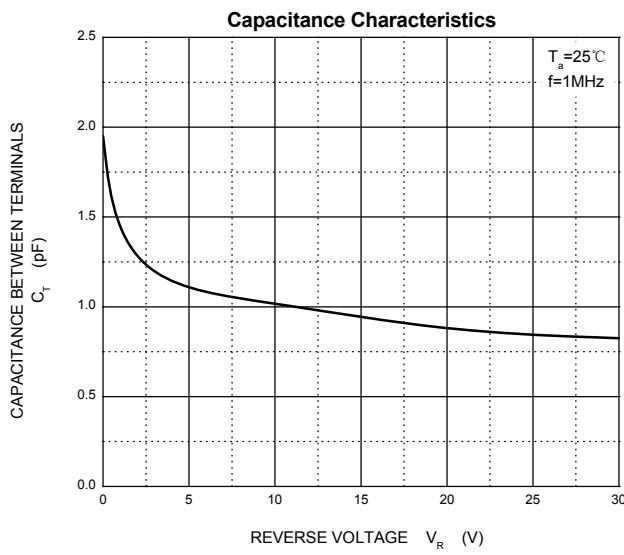
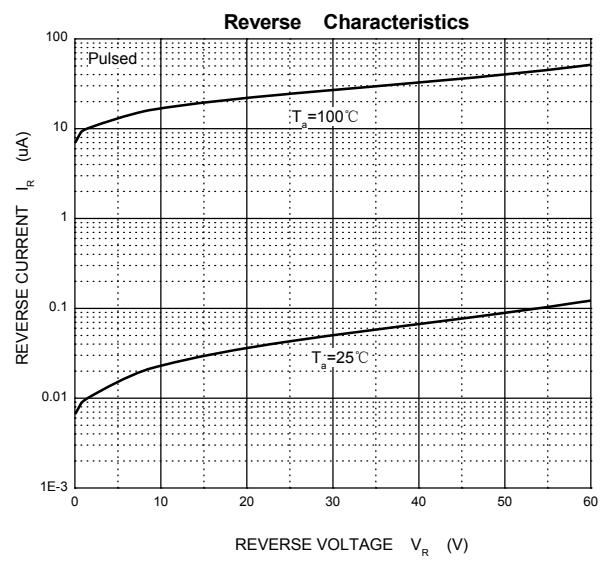
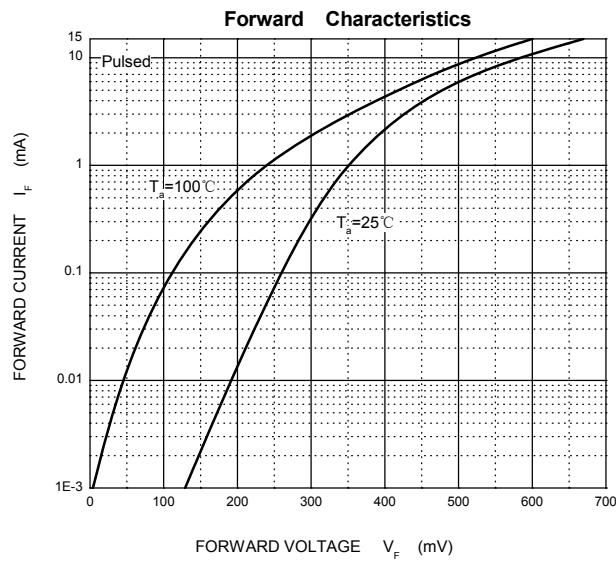
Parameter	Symbol	Value			Unit
Peak Repetitive Peak Reverse Voltage	V _{RRM}				
Working Peak Reverse Voltage	V _{RWM}	60			V
DC Blocking Voltage	V _R				
RMS Reverse Voltage	V _{R(RMS)}	42			V
Forward Continuous Current	I _{FM}	15			mA
Non-repetitive Peak Forward Surge Current@t=8.3ms	I _{FSM}	2.0			A
Power Dissipation	P _d	400			mW
Thermal Resistance Junction to Ambient	R _{θJA}	250			°C/W
Junction temperature	T _j	125			°C
Storage Temperature	T _{STG}	-55~+150			°C

Electrical Ratings @Ta=25°C

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	V _R	60			V	I _R =10µA
Forward voltage	V _F			0.41 1.00	V	I _F =1.0mA I _F =15mA
Reverse current	I _{RM}			0.2	µA	V _R =50V
Capacitance between terminals	C _T			2.0	pF	V _R =0V,f=1.0MHz
Reverse recovery time	t _{rr}			1.0	ns	I _F =I _R =5mA I _{rr} =0.1XI _R ,R _L =100Ω

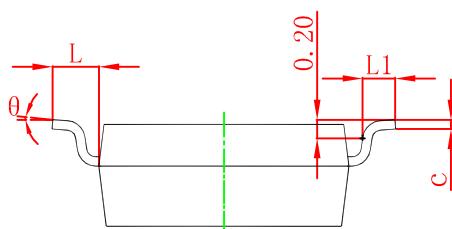
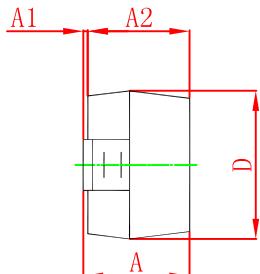
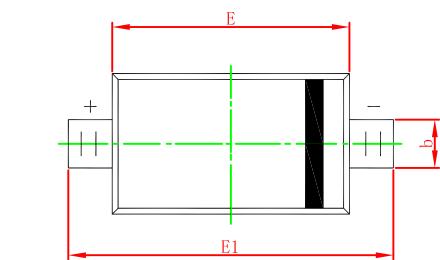


Typical Characteristics



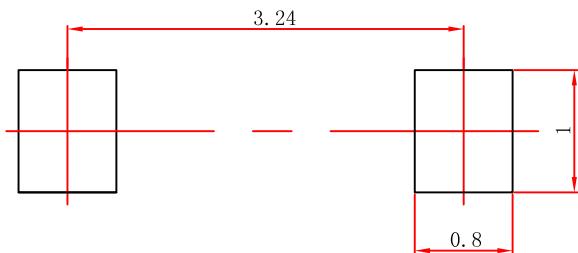


SOD-123 Package Outline Dimensions



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: ± 0.05 mm.
3. The pad layout is for reference purposes only.