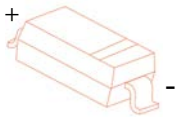
FEATURES

- Extremely Fast Switching Speed
- Low Forward Voltage

SOD-123



MARKING: L9

Maximum Ratings @T_A=25℃

Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	30	V
DC Blocking Voltage	V_R	21	V
Average Rectified Output Current	I_O	100	mA
Forward Continuous Current	I_F	200	mA
Non-repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	600	mA
Power Dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	℃/W
Operating Junction Temperature Range	T_J	125	℃
Storage Temperature Range	T_{STG}	-55 ~ +150	℃

Electrical Characteristics @T_A=25℃

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	$V_{(BR)R}$	30			V	IR=100μA
Forward voltage	V_{F1}			0.24	V	I_F=0.1mA
	V_{F2}			0.32	V	I_F=1mA
	V_{F3}			0.40	V	I_F=10mA
	V_{F4}			0.50	V	I_F=30mA
	V_{F5}			1	V	I_F=100mA
Reverse current	I_R			2	μA	V_R=25V
Diode Capacitance	C_D			10	pF	V_R=1V,f=1MHz
Reverse Recovery Time	t_{rr}			5	nS	I_F=I_R=10mA Irr=0.1XI_R,R_L=100Ω

Typical Characteristics

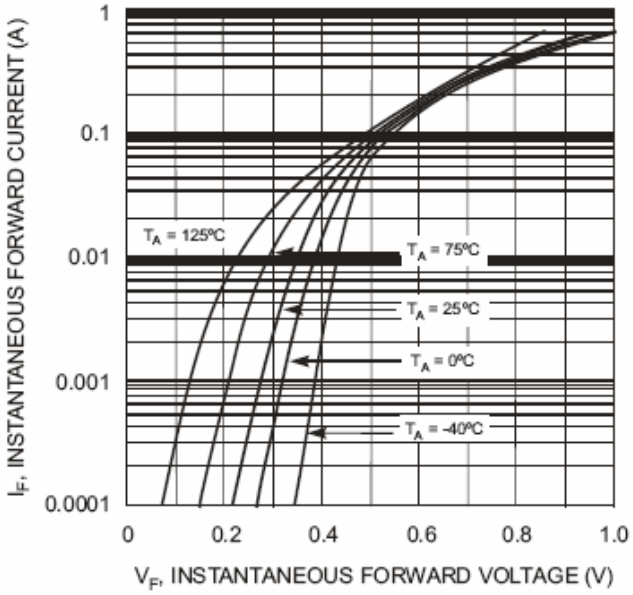


Fig. 1 Forward Characteristics

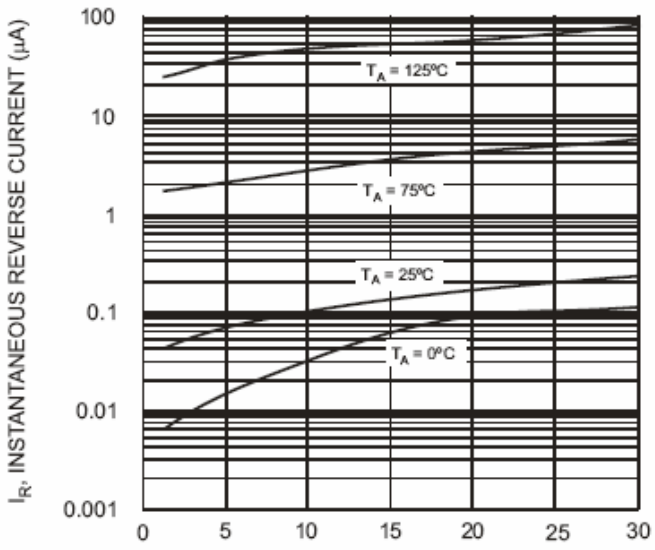


Fig. 2 Typical Reverse Characteristics

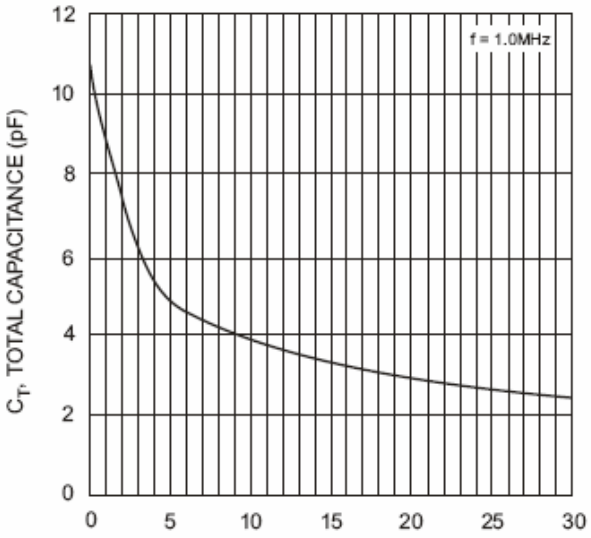


Fig. 3 Typical Capacitance vs. Reverse Voltage

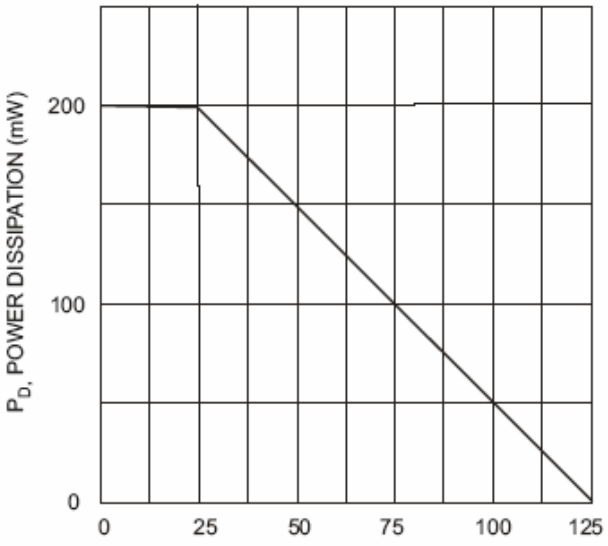
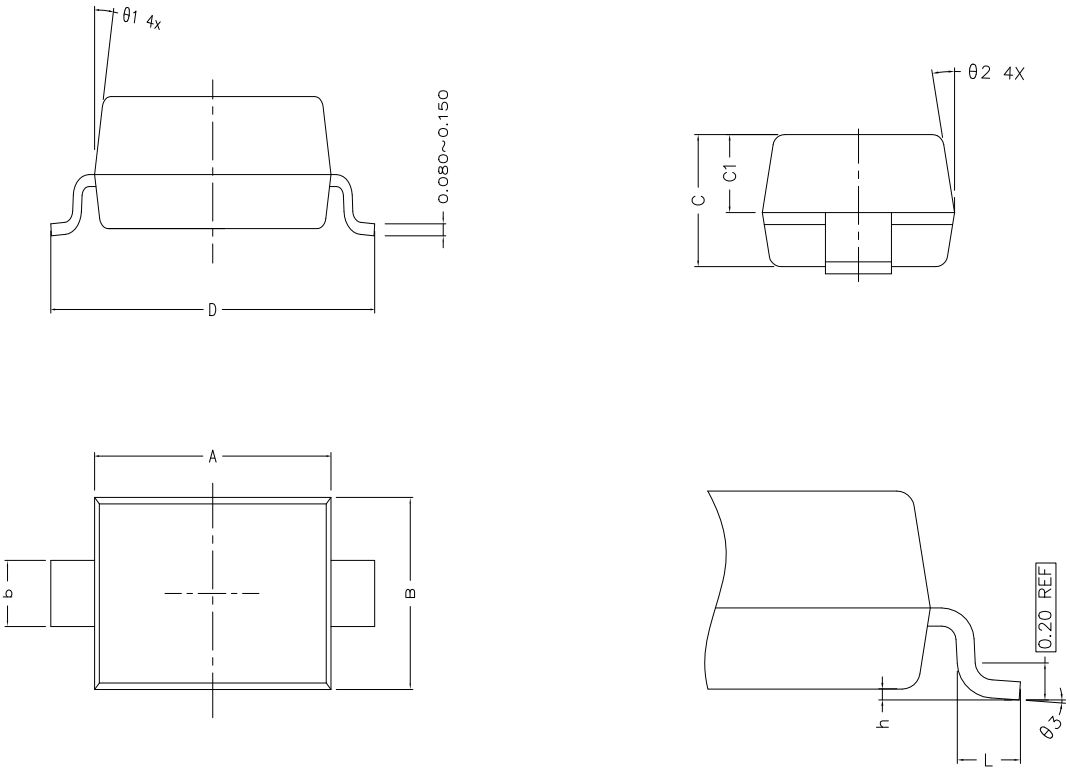


Fig. 4 Power Derating Curve

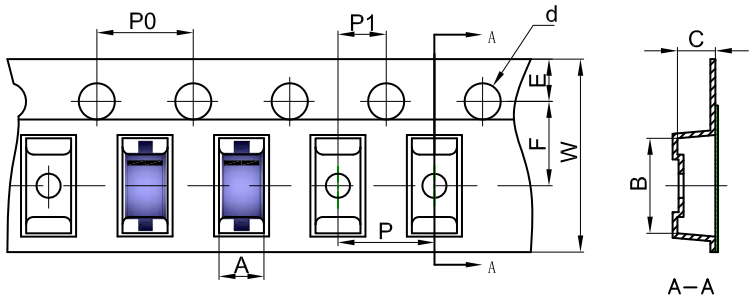
SOD-123 **Package Outline Dimensions (Units: mm)**



COMMON DIMENSIONS (UNITS OF MEASURE IS mm)			
	MIN	NORMAL	MAX
A	2.600	2.700	2.800
B	1.500	1.600	1.700
C	1.050	1.100	1.150
C1	0.600	0.650	0.700
D	3.550	3.700	3.850
L	0.250	0.350	0.450
h	0.010	0.050	0.100
b	0.450	0.550	0.650
θ1	9° TYPE		
θ2	9° TYPE		
θ3	0° ~ 7°		

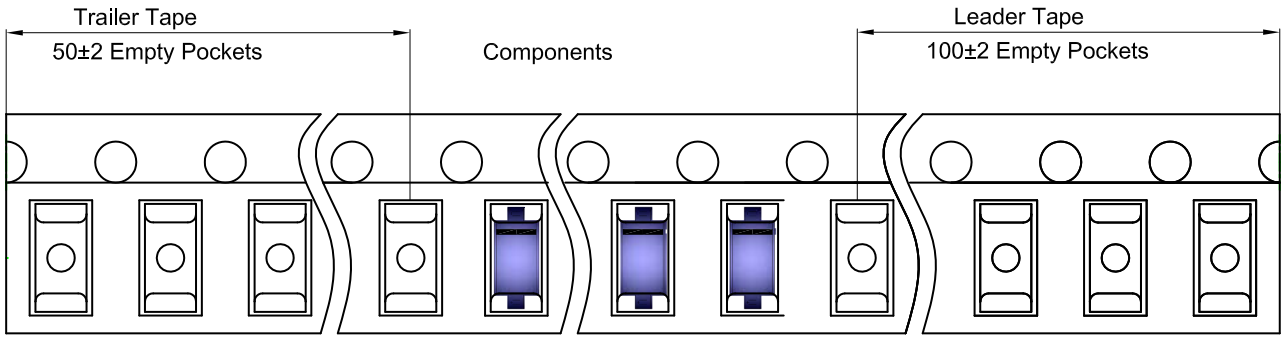
SOD-123 Tape and Reel

SOD-123 Embossed Carrier Tape

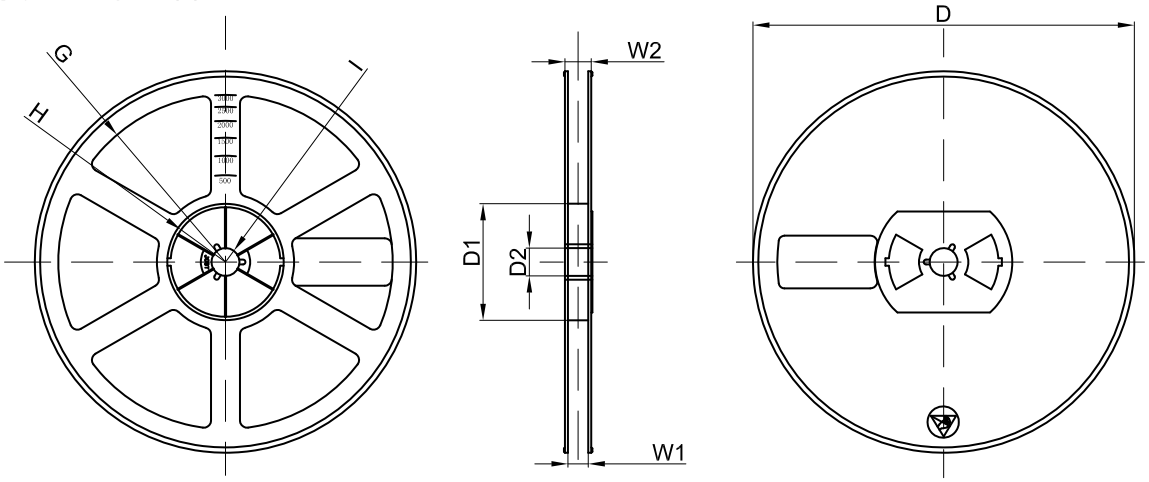


Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOD-123	1.85	3.95	1.57	Ø1.55	1.75	3.50	4.00	4.00	2.00	8.00

SOD-123 Tape Leader and Trailer



SOD-123 Reel



Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	192x182x182	180,000 pcs	400x385x205	

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