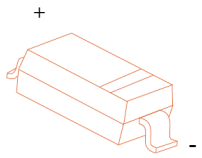
FEATURES

- Low forward voltage drop
- Guard ring construction for transient protection
- Negligible reverse recovery time
- Low reverse capacitance

SOD-123



MARKING: **SD103AW: S4**
SD103BW: S5
SD103CW: S6

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

Parameter	Symbol	SD103AW	SD103BW	SD103CW	Unit
Peak Repetitive Peak reverse voltage Working Peak DC Blocking Voltage	V_{RRM} V_{RWM} V_R	40	30	20	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	21	14	V
Forward Continuous Current	I_{FM}	350			mA
Repetitive Peak Forward Current @t≤1.0s	I_{FRM}	1.5			A
Power Dissipation	Pd	500			mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	250			℃/W
Storage temperature	T_{STG}	-65~+150			℃

Electrical Ratings @T_A=25℃

Parameter		Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	SD103AW	$V_{(BR)R}$	40			V	I_R=100μA
	SD103BW		30				I_R=100μA
	SD103CW		20				I_R=100μA
Forward voltage		V_F			0.37 0.60	V	I_F=20mA I_F=200mA
Reverse current	SD103AW	I_{RM}			5.0	μA	V_R=30V
	SD103BW						V_R=20V
	SD103CW						V_R=10V
Capacitance between terminals		C_T		50		pF	V_R=0V,f=1.0MHz
Reverse Recovery Time		t_{rr}		10		ns	I_F=I_R=200mA Irr=0.1XI_R,R_L=100Ω

WPMtek

Typical Characteristics

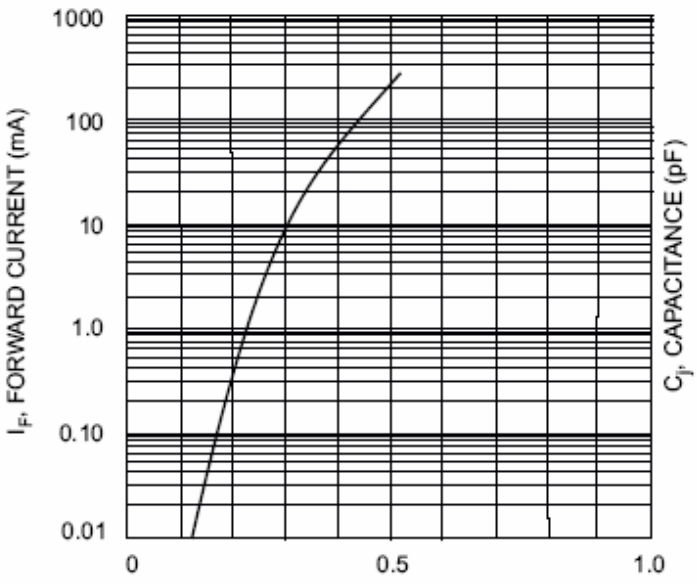


Fig. 1 Typical Forward Characteristics

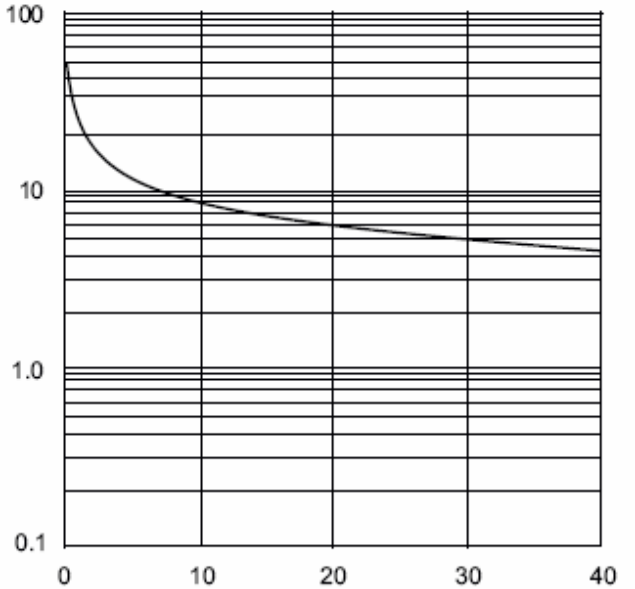
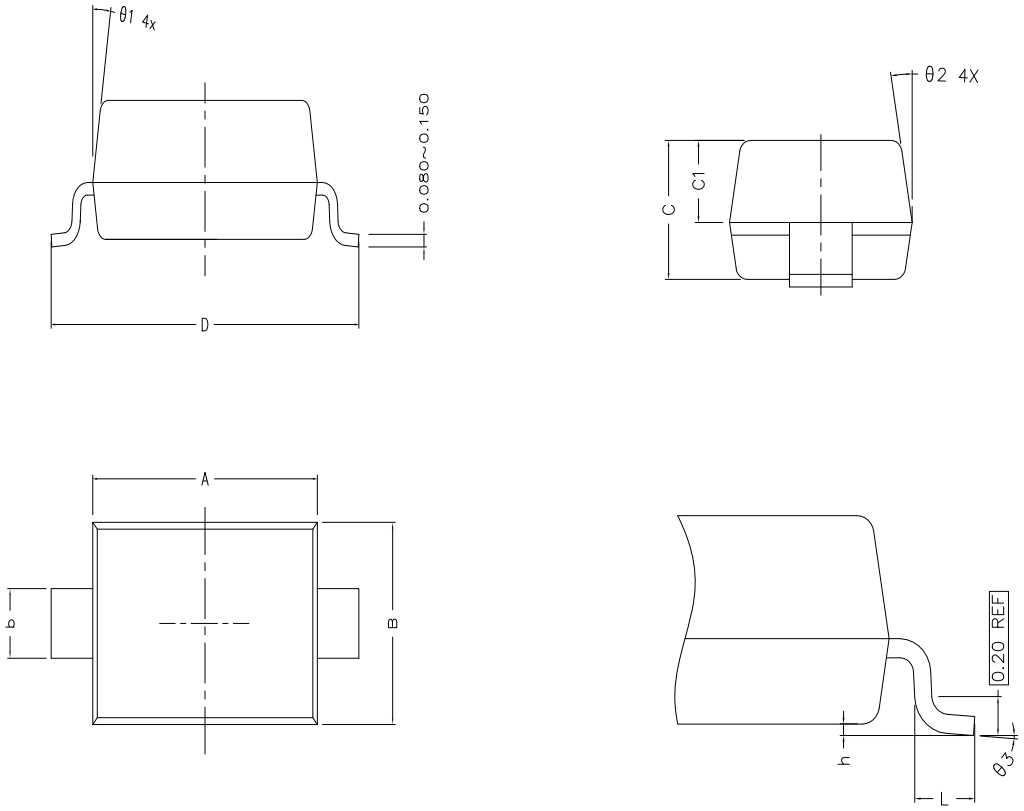


Fig. 2 Typ. Junction Capacitance vs Reverse Voltage

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SOD-123 Package Outline Dimensions (Units: mm)

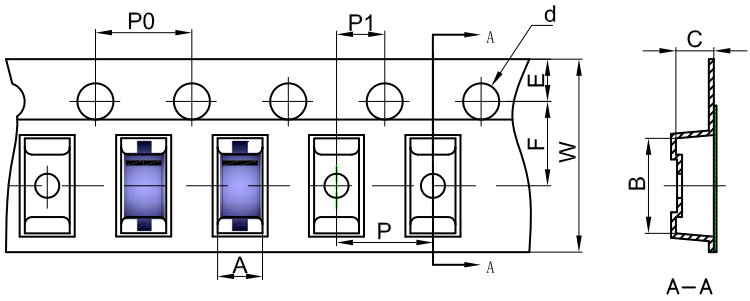


COMMON DIMENSIONS (UNITS OF MEASURE IS mm)			
	MIN	NORMAL	MAX
A	2.600	2.700	2.800
B	1.500	1.600	1.700
C	1.050	1.100	1.150
C1	0.600	0.650	0.700
D	3.550	3.700	3.850
L	0.250	0.350	0.450
h	0.010	0.050	0.100
b	0.450	0.550	0.650
θ1	9° TYPE		
θ2	9° TYPE		
θ3	0° ~ 7°		

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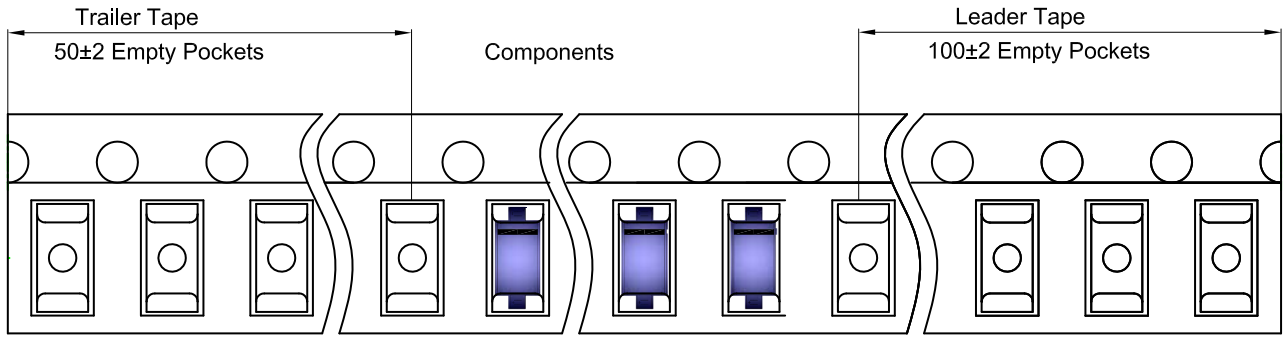
SOD-123 Tape and Reel

SOD-123 Embossed Carrier Tape

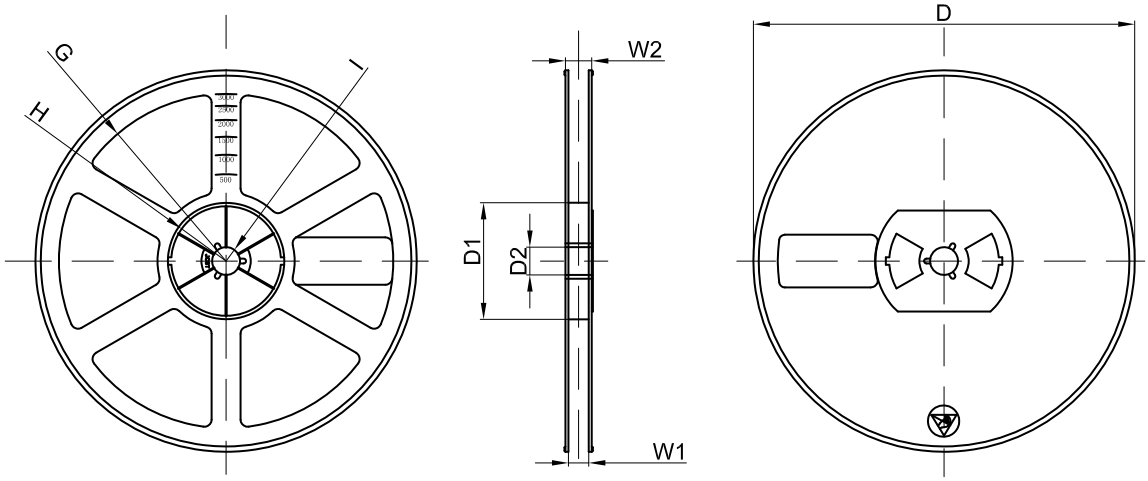


Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOD-123	1.85	3.95	1.57	Ø1.55	1.75	3.50	4.00	4.00	2.00	8.00

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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