Lastinght

SD101AW THRU SD101CW

PINNING

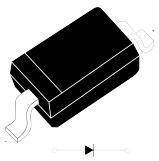
PIN	DESCRIPTION
1	Cathode
2	Anode

Surface Mount Schottky Barrier Diodes

Features

- Low forward voltage
- Low reverse capacitance

SOD-123



RoHS COMPLIANT

Pb Pb-Free

Absolute Maximum Ratings (T_a = 25 °C)

Parameter		Symbol	Value	Unit
Peak Repetitive Reverse Voltage	SD101AW SD101BW SD101CW	V_{RRM}	60 50 40	V
Reverse Voltage	SD101AW SD101BW SD101CW	V_R	60 50 40	V
Forward Continuous Current		I_{FM}	15	mA
Power Dissipation		P_d	400	mW
Non-Repetitive Peak Forward Surge Current	at t = 1 s at t = 10 μs	I_{FSM}	50 2	mA A
Operating and Storage Temperature Range		T_j, T_{stg}	- 65 to + 125	°C

Characteristics at T_a = 25 °C

Parameter		Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I_R = 10 μA	SD101AW SD101BW SD101CW	$V_{(BR)R}$	60 50 40	- - -	V
Forward Voltage at I_F = 1 mA at I_F = 15 mA	SD101AW SD101BW SD101CW SD101AW SD101BW SD101CW	V_F	- - - - - -	0.41 0.4 0.39 1 0.95 0.9	V
Reverse Current at V_R = 50 V at V_R = 40 V at V_R = 30 V	SD101AW SD101BW SD101CW	I_R	- - -	200 200 200	nA
Total Capacitance at V_R = 0 V, f = 1 MHz	SD101AW SD101BW SD101CW	C_T	- - -	2 2.1 2.2	pF
Reverse Recovery Time at I_F = I_R = 5 mA , I_{rr} = 0.1X I_R, R_L = 100 Ω		t_{rr}	-	1	ns

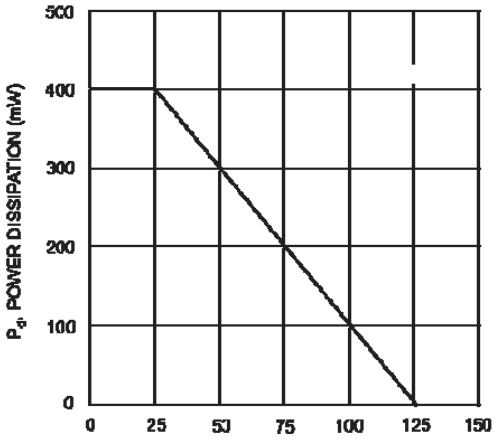


Fig.1 Power Derating Curve

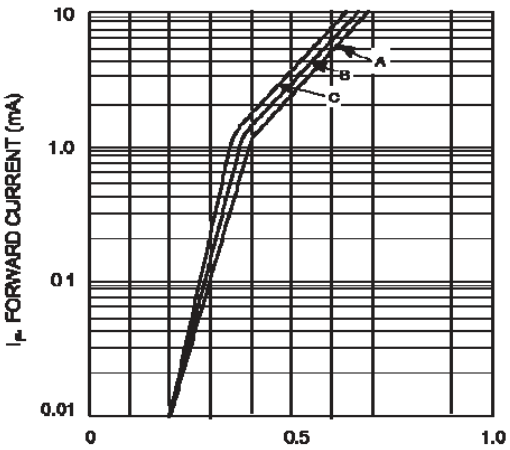


Fig 2 Typical Forward Characteristic

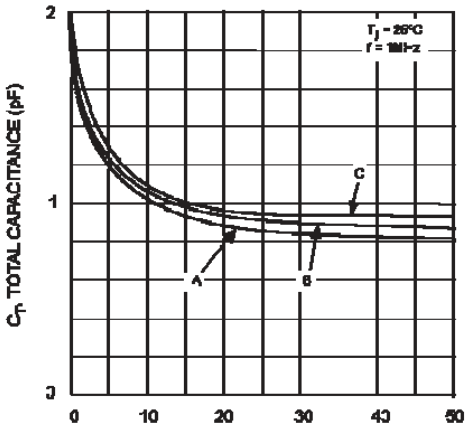


Fig. 3 Typical Total Capacitance vs Reverse Voltage

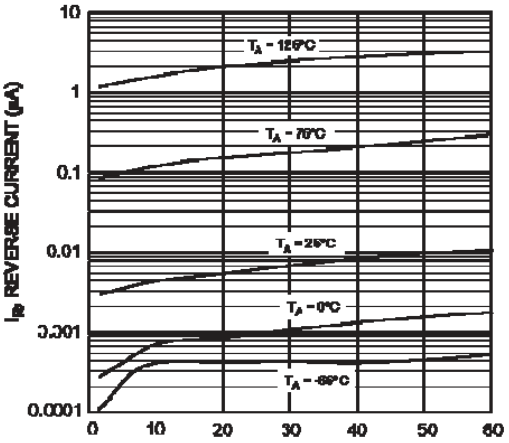
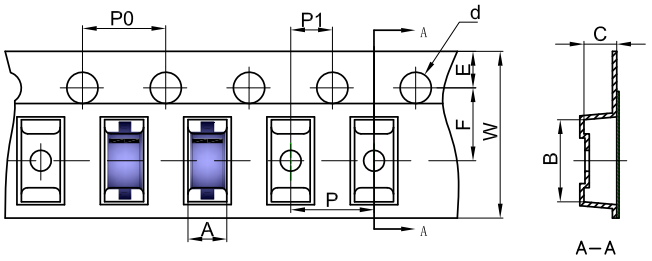


Fig 4 Typical Reverse Characteristics

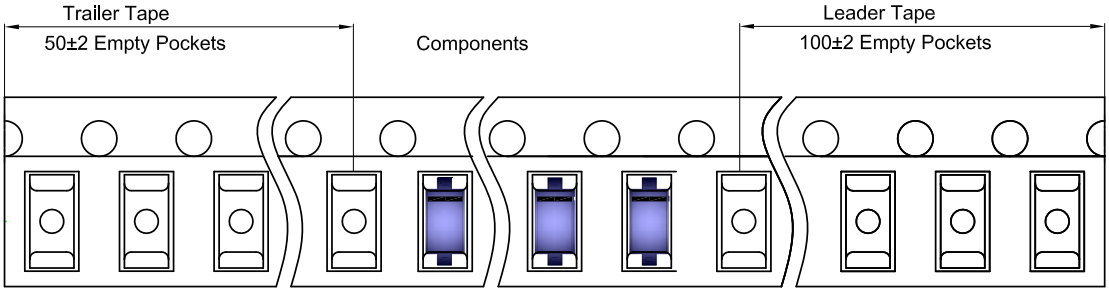
SOD-123 Tape and Reel

SOD-123 Embossed Carrier Tape

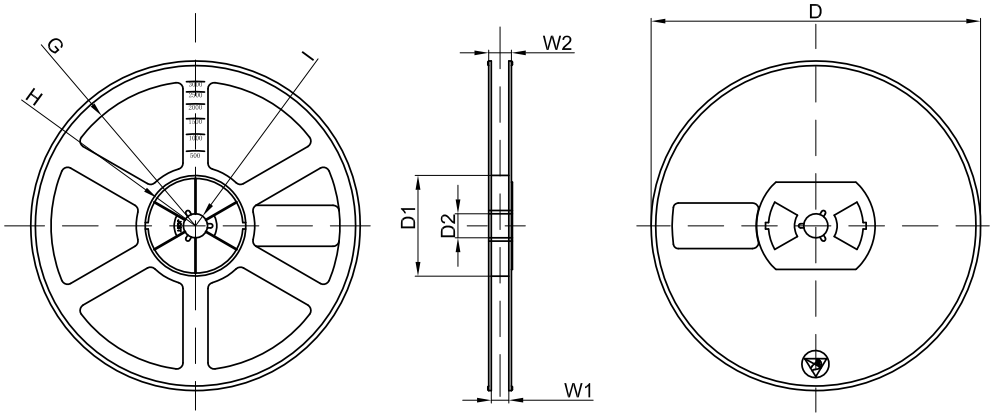


Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOD-123	1.85	3.95	1.57	Ø1.55	1.75	3.50	4.00	4.00	2.00	8.00

SOD-123 Tape Leader and Trailer

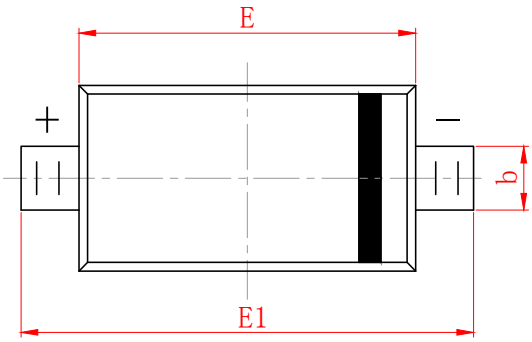


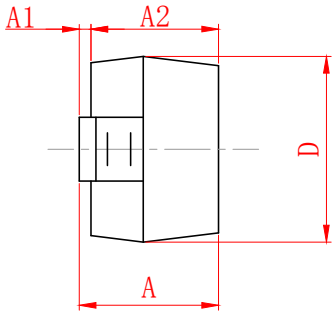
SOD-123 Reel

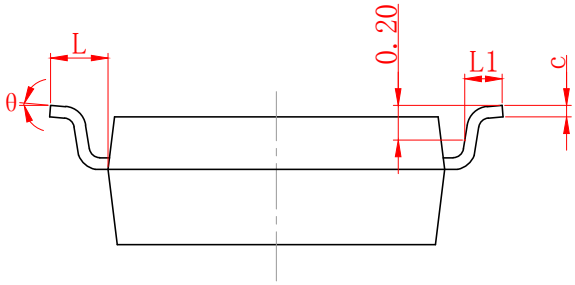


Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	







SYMBOL	MILLIMETER	
	MIN	MAX
A	1.050	1.250
A1	0.000	0.100
A2	1.050	1.150
b	0.450	0.650
c	0.008	0.150
D	1.500	1.700
E	2.600	2.800
E1	3.550	3.850
L	0.500(REF)	
L1	0.250	0.450
θ	0°	8°

DISCLAIMER

JHG PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, SAFETY INFORMATION, AND OTHER RESOURCES “AS IS” AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with JHG products. You are solely responsible for

(1)selecting the appropriate JHG products for your application;

(2)designing, validating and testing your application;

(3)ensuring your application meets applicable standards, and any other safety, security, or other requirements.

These resources are subject to change without notice. JHG grants you permission to use these resources only for development of an application that uses the JHG products described in the resource. Other reproduction and display of these resources are prohibited. No license is granted to any other JHG intellectual property right or to any third party intellectual property right. JHG disclaims responsibility for, and you will fully indemnify JHG and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.