

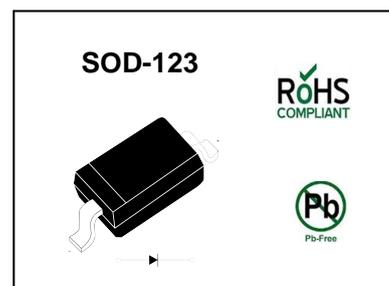
SILICON PLANAR ZENER DIODES

Features

- Total power dissipation: max. 500 mW
- Small plastic package suitable for surface mounted design
- High reliability

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Power Dissipation	P_{tot}	500	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{Stg}	- 55 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	340	$^\circ\text{C}/\text{W}$
Forward Voltage at $I_F = 10\text{ mA}$	V_F	0.9	V

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

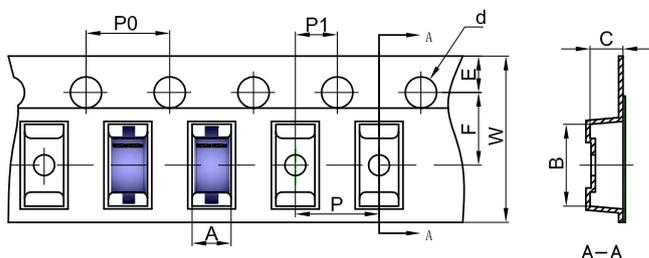
Type	Marking Code	Zener Voltage Range ¹⁾			Dynamic Impedance ²⁾		Reverse Leakage Current	
		V_{znom} V	I_{ZT} mA	for V_{ZT} V	Z_{ZT} (Max.) Ω	at I_{ZT} mA	I_R (Max.) μA	at V_R V
MM1Z2V2B	9B	2.2	5	2.1...2.4	100	5	120	0.7
MM1Z2V4B	9C	2.4	5	2.3...2.65	100	5	120	1
MM1Z2V7B	9D	2.7	5	2.65...2.95	110	5	120	1
MM1Z3V0B	9E	3.0	5	2.95...3.25	120	5	50	1
MM1Z3V3B	9F	3.3	5	3.25...3.55	120	5	20	1
MM1Z3V6B	9H	3.6	5	3.6...3.845	100	5	10	1
MM1Z3V9B	9J	3.9	5	3.89...4.16	100	5	5	1
MM1Z4V3B	9K	4.3	5	4.17...4.43	100	5	5	1
MM1Z4V7B	9M	4.7	5	4.55...4.75	100	5	2	1
MM1Z5V1B	9N	5.1	5	4.98...5.2	80	5	2	1.5
MM1Z5V6B	9P	5.6	5	5.49...5.73	60	5	1	2.5
MM1Z6V2B	9R	6.2	5	6.06...6.33	60	5	1	3
MM1Z6V8B	9X	6.8	5	6.65...6.93	40	5	0.5	3.5
MM1Z7V5B	9Y	7.5	5	7.28...7.6	30	5	0.5	4
MM1Z8V2B	9Z	8.2	5	8.02...8.36	30	5	0.5	5
MM1Z9V1B	0A	9.1	5	8.85...9.23	30	5	0.5	6
MM1Z10B	0B	10	5	9.77...10.21	30	5	0.1	7
MM1Z11B	0C	11	5	10.76...11.22	30	5	0.1	8
MM1Z12B	0D	12	5	11.74...12.24	30	5	0.1	9
MM1Z13B	0E	13	5	12.91...13.49	37	5	0.1	10
MM1Z15B	0F	15	5	14.34...14.98	42	5	0.1	11
MM1Z16B	0H	16	5	15.85...16.51	50	5	0.1	12
MM1Z18B	0J	18	5	17.56...18.35	65	5	0.1	13
MM1Z20B	0K	20	5	19.52...20.39	85	5	0.1	15
MM1Z22B	0M	22	5	21.54...22.47	100	5	0.1	17
MM1Z24B	0N	24	5	23.72...24.78	120	5	0.1	19
MM1Z27B	0P	27	5	26.19...27.53	150	5	0.1	21
MM1Z30B	0R	30	5	29.19...30.69	200	5	0.1	23
MM1Z33B	0X	33	5	32.15...33.79	250	5	0.1	25
MM1Z36B	0Y	36	5	35.07...36.87	300	5	0.1	27
MM1Z39B	0Z	39	5	37...41	100	5	2	30

¹⁾ V_Z is tested with pulses(20 ms).

²⁾ Z_{ZT} is measured at I_Z by given a very small A.C. current signal.

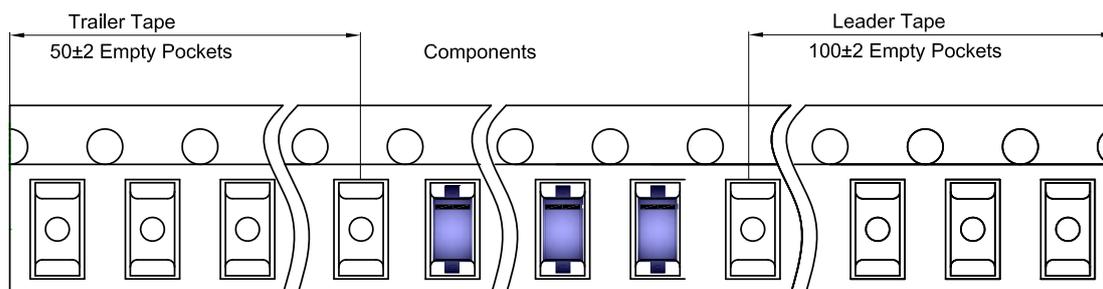
SOD-123 Tape and Reel

SOD-123 Embossed Carrier Tape

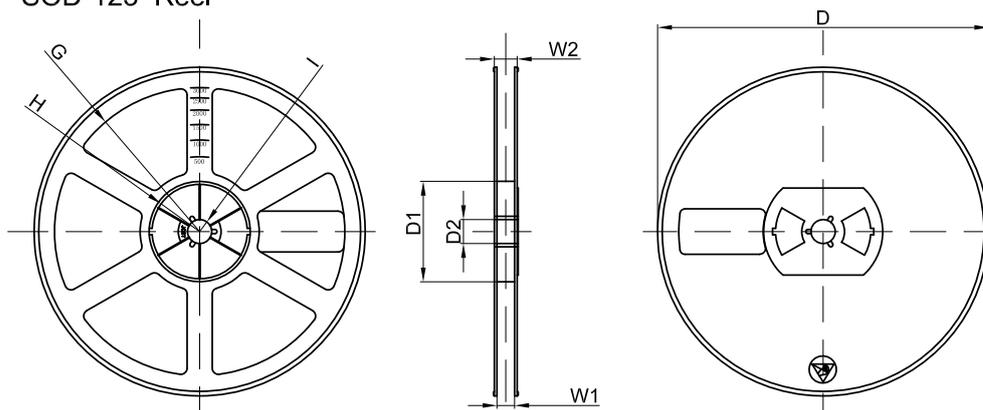


Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOD-123	1.85	3.95	1.57	Ø1.55	1.75	3.50	4.00	4.00	2.00	8.00

SOD-123 Tape Leader and Trailer

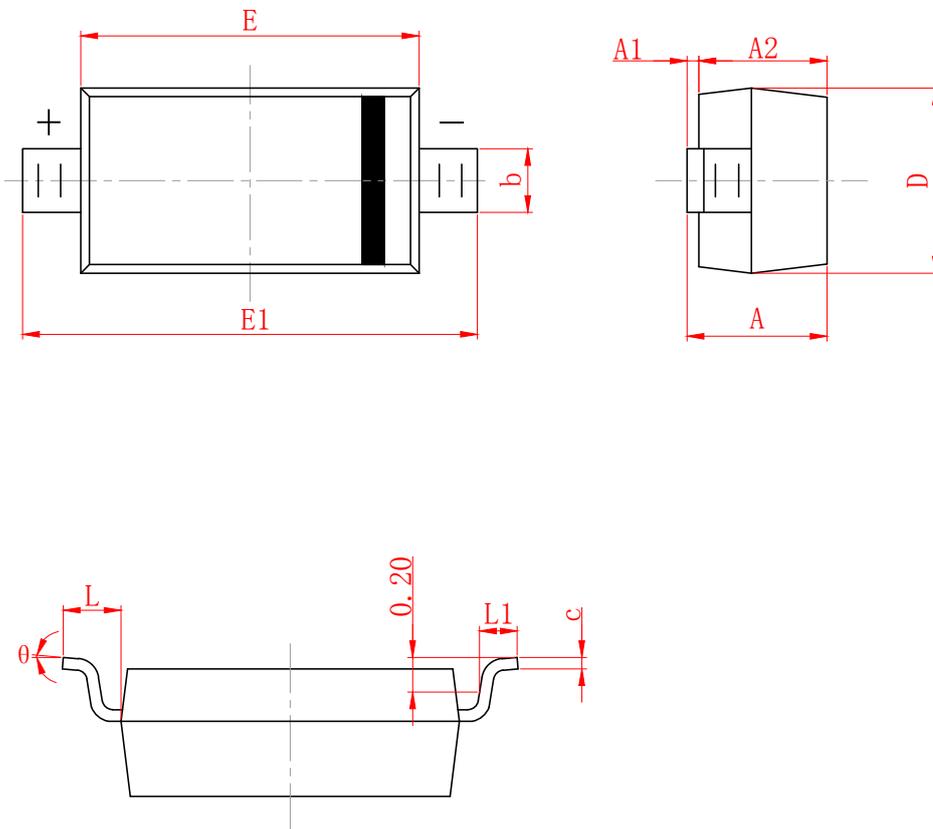


SOD-123 Reel



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°

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