

Silicon Planar Zener Diodes

FEATURES

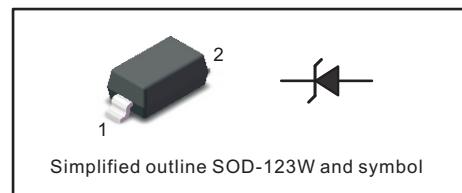
- Total power dissipation: Max. 500mW.
- Wide zener reverse voltage range 2.4V to 51V.
- Small plastic package suitable for surface mounted design.
- Tolerance approximately $\pm 5\%$

MECHANICAL DATA

- Case: SOD-123W
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 16mg/0.00056oz

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

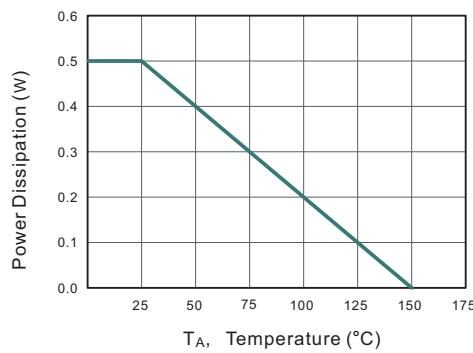
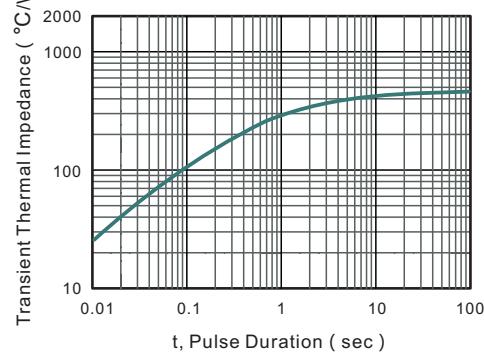


Simplified outline SOD-123W and symbol

Absolute Maximum Ratings And Characteristics (Ta = 25 °C)

Parameter	Symbol	Value	Unit
Power Dissipation	P_{tot}	500	mW
Forward Voltage at $I_F = 10$ mA	V_F	0.9	V
Typical thermal resistance jucting to ambient ⁽¹⁾	$R_{\theta JA}$	340	°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150	°C

(1) Thermal resistance from junction to ambient at P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper areas pads.

Fig.1 Maximum Continuous Power Derating**Fig.2 Typical Transient Thermal Impedance**

Characteristics at Ta = 25°C

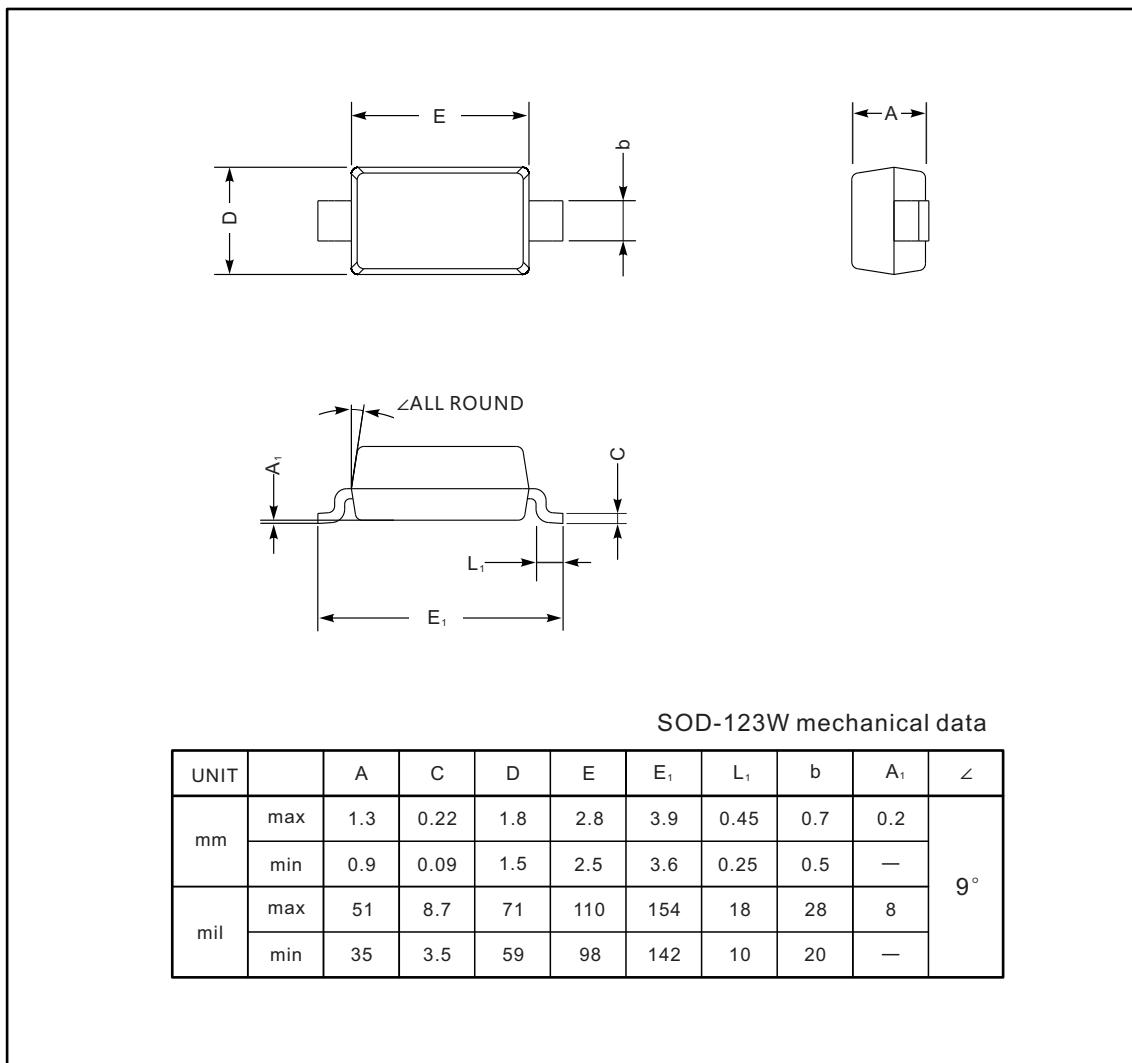
Type	Marking	Zener Voltage Range ⁽¹⁾			I _{ZT}	Dynamic Impedance	Reverse Current		
		V _{ZT} (at I _{ZT})				Z _{ZT} (at I _{ZT})	I _R	at V _R	
		Min (V)	Nom (V)	Max (V)		(mA)	Max (Ω)	(V)	
BZT52C2V4	WX	2.28	2.4	2.56	5	100	120	1	
BZT52C2V7	W1	2.5	2.7	2.9	5	110	120	1	
BZT52C3V0	W2	2.8	3.0	3.2	5	120	50	1	
BZT52C3V3	W3	3.1	3.3	3.5	5	130	20	1	
BZT52C3V6	W4	3.4	3.6	3.8	5	130	10	1	
BZT52C3V9	W5	3.7	3.9	4.1	5	130	5	1	
BZT52C4V3	W6	4	4.3	4.6	5	130	5	1	
BZT52C4V7	W7	4.4	4.7	5	5	130	2	1	
BZT52C5V1	W8	4.8	5.1	5.4	5	130	2	1.5	
BZT52C5V6	W9	5.2	5.6	6	5	80	1	2.5	
BZT52C6V2	WA	5.8	6.2	6.6	5	50	1	3	
BZT52C6V8	WB	6.4	6.8	7.2	5	30	0.5	3.5	
BZT52C7V5	WC	7	7.5	7.9	5	30	0.5	4	
BZT52C8V2	WD	7.7	8.2	8.7	5	30	0.5	5	
BZT52C9V1	WE	8.5	9.1	9.6	5	30	0.5	6	
BZT52C10	WF	9.4	10	10.6	5	30	0.1	7	
BZT52C11	WG	10.4	11	11.6	5	30	0.1	8	
BZT52C12	WH	11.4	12	12.7	5	35	0.1	9	
BZT52C13	WI	12.4	13	14.1	5	35	0.1	10	
BZT52C15	WJ	13.8	15	15.6	5	40	0.1	11	
BZT52C16	WK	15.3	16	17.1	5	40	0.1	12	
BZT52C18	WL	16.8	18	19.1	5	45	0.1	13	
BZT52C20	WM	18.8	20	21.2	5	50	0.1	15	
BZT52C22	WN	20.8	22	23.3	5	55	0.1	17	
BZT52C24	WO	22.8	24	25.6	5	60	0.1	19	
BZT52C27	WP	25.1	27	28.9	5	70	0.1	21	
BZT52C30	WQ	28	30	32	5	80	0.1	23	
BZT52C33	WR	31	33	35	5	80	0.1	25	
BZT52C36	WS	34	36	38	5	90	0.1	27	
BZT52C39	WT	37	39	41	2.5	100	2	30	
BZT52C43	WU	40	43	46	2.5	130	2	33	
BZT52C47	WV	44	47	50	2.5	150	2	36	
BZT52C51	WW	48	51	54	2.5	180	1	39	

(1) V_{ZT} is tested with pulses (20 ms)

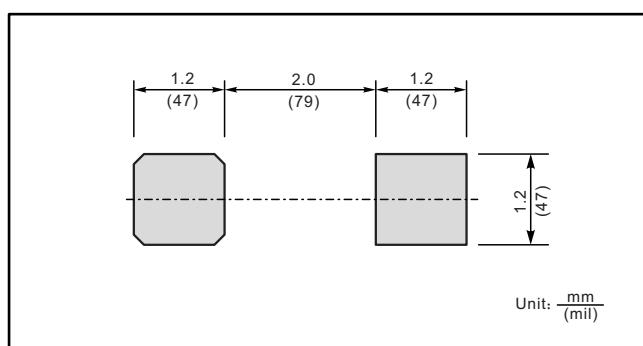
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123W



The recommended mounting pad size



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