

Silicon Planar Zener Diodes

FEATURES

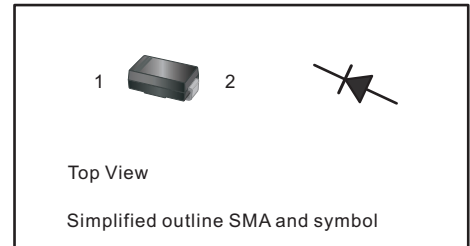
- Total power dissipation: Max. 1.5 W.
- Wide zener reverse voltage range 3.3V to 240V.
- Small plastic package suitable for surface mounted design.

MECHANICAL DATA

- Case: SMA
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.055g / 0.002oz

PINNING

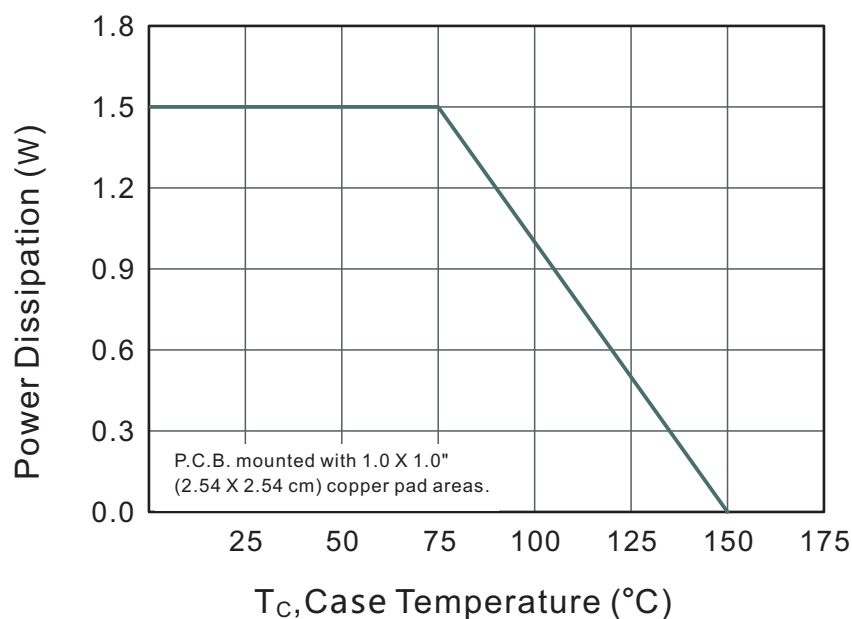
PIN	DESCRIPTION
1	Cathode
2	Anode



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

Parameter	Symbol	Value	Unit
Power Dissipation at $T_L=75^\circ\text{C}$	P_D	1.5	W
Forward Voltage at $I_F = 200 \text{ mA}$	V_F	1.5	V
Junction Temperature Range	T_J	- 55 to + 150	$^\circ\text{C}$
Storage Temperature Range	T_S	- 55 to + 150	$^\circ\text{C}$

Fig.1 Maximum Continuous Power Derating



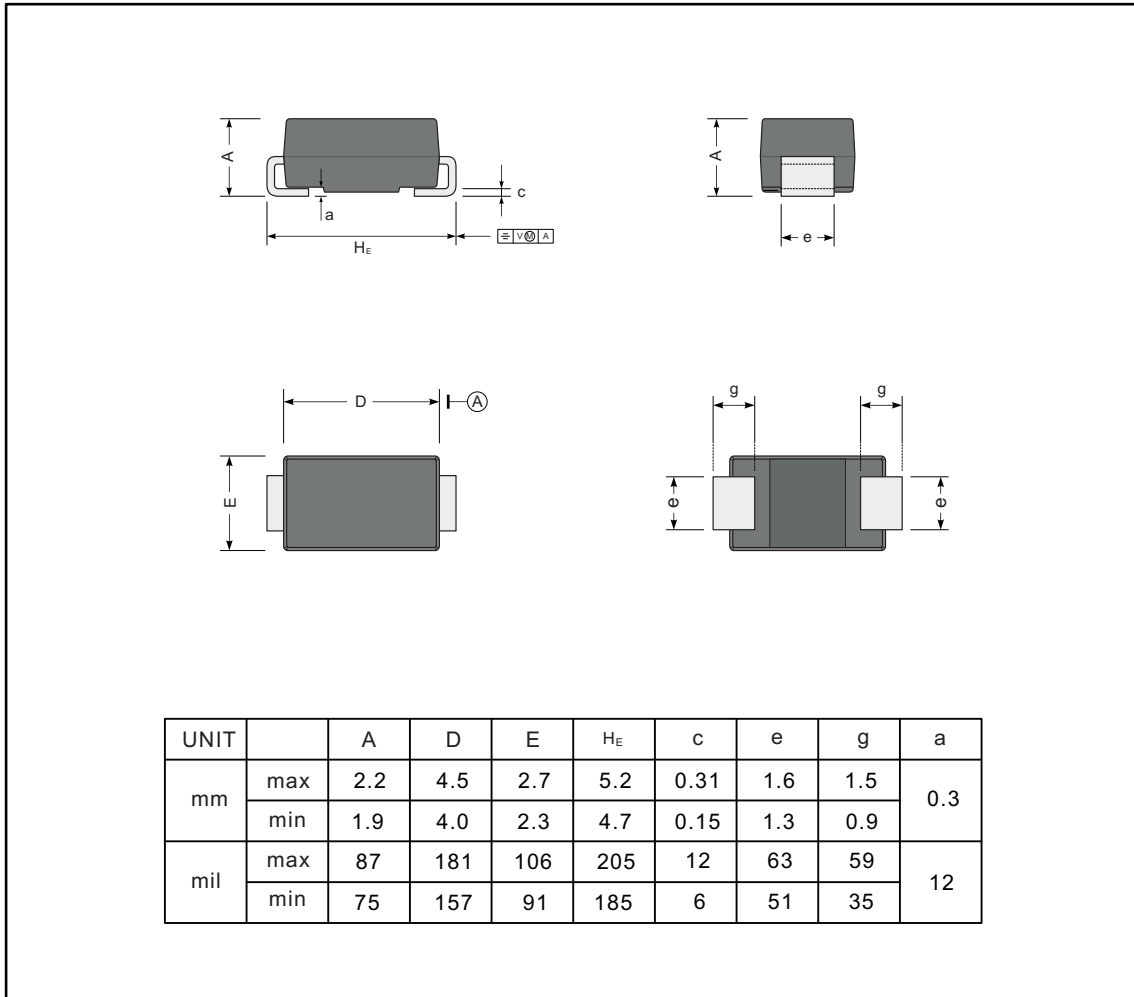
Characteristics at $T_a = 25^\circ\text{C}$

Type (note1)	Marking (note1)	Zener Voltage Range (note2)				Dynamic Impedance	Reverse Current		Admissible Zener Current
		V_{ZT} (at I_{ZT})			at I_{ZT}		Z_{ZT} (at I_{ZT})	I_R	
		Min (V)	Nom (V)	Max (V)	(mA)	Max (Ω)	Max (μA)	(V)	I_{ZM} (mA)
1SMA5913BG	913B	3.13	3.3	3.47	113.6	10	100	1	454
1SMA5914BG	914B	3.42	3.6	3.78	104.2	9.0	75	1	416
1SMA5915BG	915B	3.70	3.9	4.10	96.1	7.5	25	1	384
1SMA5916BG	916B	4.08	4.3	4.52	87.2	6.0	5	1	348
1SMA5917BG	917B	4.46	4.7	4.94	79.8	5.0	5	1.5	319
1SMA5918BG	918B	4.84	5.1	5.36	73.5	4.0	5	2	294
1SMA5919BG	919B	5.32	5.6	5.88	66.9	2.0	5	3	267
1SMA5920BG	920B	5.89	6.2	6.51	60.5	2.0	5	4	241
1SMA5921BG	921B	6.46	6.8	7.14	55	2.5	5	5.2	220
1SMA5922BG	922B	7.12	7.5	7.88	50	3.0	5	6	200
1SMA5923BG	923B	7.79	8.2	8.61	45.7	3.5	5	6.5	182
1SMA5924BG	924B	8.60	9.1	9.56	41.2	4.0	5	7	164
1SMA5925BG	925B	9.50	10	10.5	37.5	4.5	5	8	150
1SMA5926BG	926B	10.4	11	11.6	34	5.5	1	8.4	136
1SMA5927BG	927B	11.4	12	12.6	31.2	6.5	1	9	125
1SMA5928BG	928B	12.35	13	14.1	28.8	7.0	1	9.9	115
1SMA5929BG	929B	13.8	15	15.8	25	9.0	1	11.4	100
1SMA5930BG	930B	15.2	16	16.8	23.4	10	1	12.2	93
1SMA5931BG	931B	16.8	18	19.2	21	12	1	13.7	83
1SMA5932BG	932B	19.0	20	21.2	19	14	1	15.2	75
1SMA5933BG	933B	20.8	22	23.3	17	18	1	16.7	68
1SMA5934BG	934B	22.8	24	25.2	16	19	1	18.2	62
1SMA5935BG	935B	25.3	27	28.9	14	23	1	20.6	55
1SMA5936BG	936B	28.2	30	32.0	12.5	26	1	23	50
1SMA5937BG	937B	31.3	33	34.9	11.4	33	1	25	45
1SMA5938BG	938B	34.2	36	37.9	10.4	38	1	27	41
1SMA5939BG	939B	37.2	39	41.5	9.6	45	1	30	38
1SMA5940BG	940B	40.9	43	45.6	8.7	53	1	33	34
1SMA5941BG	941B	44.9	47	49.8	8.0	67	1	36	31
1SMA5942BG	942B	48.6	51	54.0	7.3	70	1	39	29
1SMA5943BG	943B	53.6	56	58.8	6.7	86	1	42	26
1SMA5944BG	944B	58.9	62	65.6	6.0	100	1	47	24
1SMA5945BG	945B	64.6	68	71.7	5.5	120	1	52	22
1SMA5946BG	946B	71.2	75	78.8	5.0	140	1	57	20
1SMA5947BG	947B	77.9	82	87.0	4.6	160	1	62	18
1SMA5948BG	948B	86.0	91	96.0	4.1	200	1	69	16
1SMA5949BG	949B	95.0	100	105	3.7	250	1	76	15
1SMA5950BG	950B	104	110	116	3.4	300	1	84	13
1SMA5951BG	951B	114	120	127	3.1	380	1	91	12
1SMA5952BG	952B	125	130	142	2.9	450	1	100	11
1SMA5953BG	953B	140	150	157	2.5	600	1	114	10
1SMA5954BG	954B	152	160	168	2.3	700	1	121.6	9.0
1SMA5955BG	955B	168	180	189	2.1	900	1	136.8	8.0
1SMA5956BG	956B	189	200	211	1.9	1200	1	152	7.0
1SMA5957BG	957B	228	240	252	1.5	1600	1	182.4	6.0

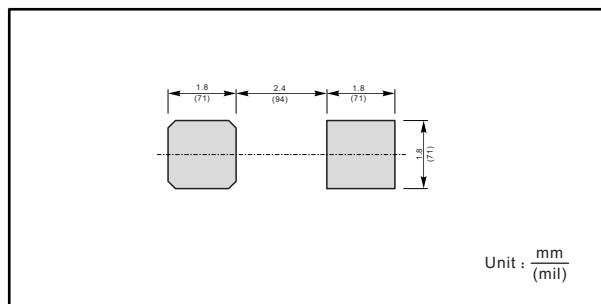
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMA



The recommended mounting pad size



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