

1SMA5913BAT THRU 1SMA5957BAT

Silicon Planar Zener Diodes
Zener Voltage: 3.3-240V Peak Pulse Power:1.5W

FEATURES

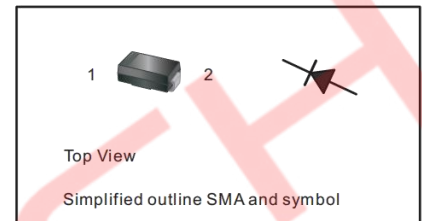
- ◆ Wide zener reverse Voltage Range: 3.3 to 240 Volts
- ◆ Total power dissipation :Max.1.5W
- ◆ Small plastic package suitable for surface mounted design.

Mechanical Characteristics

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

PINNING

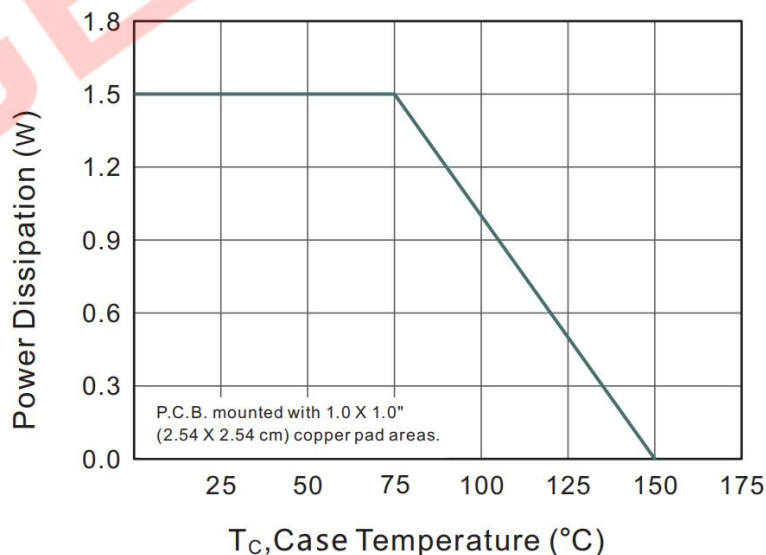
PIN	DESCRIPTION
1	Cathode
2	Anode



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

Rating	SymBol	Value	Unit
DC Power Dissipation @ T _L = 75°C, Measured at Zero Lead Length Derate aBove 75°C	P _D	1.5	W
Forward Voltage at I _f =200mA	V _F	1.5	V
Junction and Storage Temperature Range	T _J , T _{stg}	- 55 to +150	°C

Fig.1 Maximum Continuous Power Derating



1SMA5913BAT THRU 1SMA5957BAT

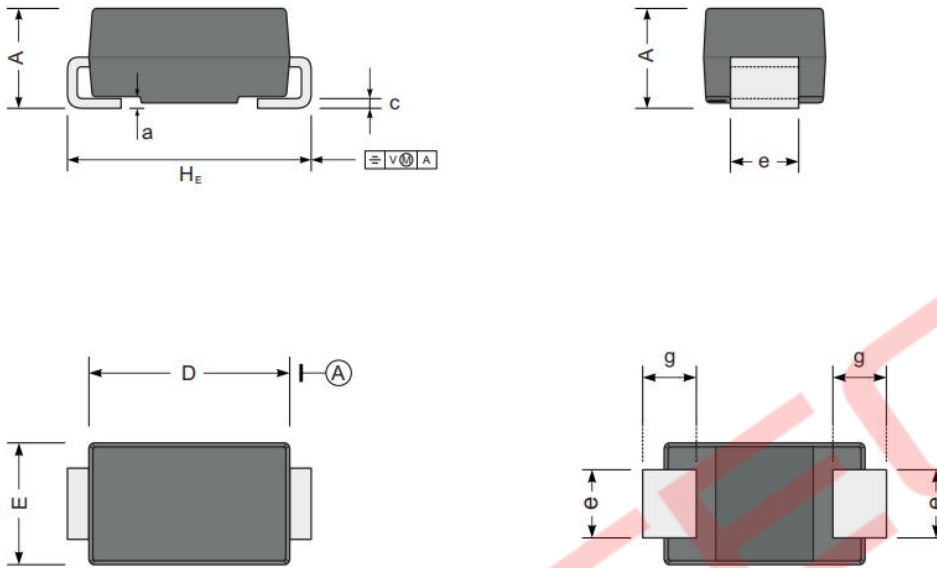
ELECTRICAL CHARACTERISTICS ($T_L = 30^\circ\text{C}$ unless otherwise noted.) ($V_F = 1.5$ Volts Max @ $I_F = 200$ mAdc for all types.)

Device*	Zener Voltage Range V_{ZT} (at I_{ZT})				Dynamic Impadance Z_{ZT} (at I_{ZT}) Max(Ω)	Reverse Current		Admissible Zener Current I_{ZM} (mA)	Marking
	Min(V)	Nom(V)	Max(V)	at I_{ZT} (mA)		I_R Max(μA)	at V_R (V)		
1SMA5913BAT	3.13	3.3	3.47	113.6	10	100	1	454	913B
1SMA5914BAT	3.42	3.6	3.78	104.2	9	75	1	416	914B
1SMA5915BAT	3.70	3.9	4.10	96.1	7.5	25	1	384	915B
1SMA5916BAT	4.08	4.3	4.52	87.2	6	5	1	348	916B
1SMA5917BAT	4.46	4.7	4.94	79.8	5	5	1.5	319	917B
1SMA5918BAT	4.84	5.1	5.36	73.5	4	5	2	294	918B
1SMA5919BAT	5.32	5.6	5.88	66.9	2	5	3	267	919B
1SMA5920BAT	5.89	6.2	6.51	60.5	2	5	4	241	920B
1SMA5921BAT	6.46	6.8	7.14	55	2.5	5	5.2	220	921B
1SMA5922BAT	7.12	7.5	7.88	50	3	5	6	200	922B
1SMA5923BAT	7.79	8.2	8.61	45.7	3.5	5	6.5	182	923B
1SMA5924BAT	8.60	9.1	9.56	41.2	4	5	7	164	924B
1SMA5925BAT	9.50	10	10.5	37.5	4.5	5	8	150	925B
1SMA5926BAT	10.4	11	11.6	34	5.5	1	8.4	136	926B
1SMA5927BAT	11.4	12	12.6	31.2	6.5	1	9	125	927B
1SMA5928BAT	12.35	13	14.1	28.8	7	1	9.9	115	928B
1SMA5929BAT	13.8	15	15.8	25	9	1	11.4	100	929B
1SMA5930BAT	15.2	16	16.8	23.4	10	1	12.2	93	930B
1SMA5931BAT	16.8	18	19.2	21	12	1	13.7	83	931B
1SMA5932BAT	19.0	20	21.2	19	14	1	15.2	75	932B
1SMA5933BAT	20.8	22	23.3	17	17.5	1	16.7	68	933B
1SMA5934BAT	22.8	24	25.2	16	19	1	18.2	62	934B
1SMA5935BAT	25.3	27	28.9	14	23	1	20.6	55	935B
1SMA5936BAT	28.2	30	32.0	12.5	26	1	23	50	936B
1SMA5937BAT	31.3	33	34.9	11.4	33	1	25	45	937B
1SMA5938BAT	34.2	36	37.9	10.4	38	1	27	41	938B
1SMA5939BAT	37.2	39	41.5	9.6	45	1	30	38	939B
1SMA5940BAT	40.9	43	45.6	8.7	53	1	33	34	940B
1SMA5941BAT	44.9	47	49.8	8	67	1	36	31	941B
1SMA5942BAT	48.6	51	54.0	7.3	70	1	39	29	942B
1SMA5943BAT	53.6	56	58.8	6.7	86	1	42	26	943B
1SMA5944BAT	58.9	62	65.6	6	100	1	47	24	944B
1SMA5945BAT	64.6	68	71.7	5.5	120	1	52	22	945B
1SMA5946BAT	71.2	75	78.8	5	140	1	57	20	946B
1SMA5947BAT	77.9	82	87.0	4.6	160	1	62	18	947B
1SMA5948BAT	86.0	91	96.0	4.1	200	1	69	16	948B
1SMA5949BAT	95.0	100	105	3.7	250	1	76	15	949B
1SMA5950BAT	104	110	116	3.4	300	1	84	13	950B
1SMA5951BAT	114	120	127	3.1	380	1	91	12	951B
1SMA5952BAT	125	130	142	2.9	450	1	100	11	952B
1SMA5953BAT	140	150	157	2.5	600	1	114	10	953B
1SMA5954BAT	152	160	168	2.3	700	1	121.6	9	954B
1SMA5955BAT	168	180	189	2.1	900	1	136.8	8	955B
1SMA5956BAT	189	200	211	1.9	1200	1	152	7	956B
1SMA5957BAT	228	240	252	1.5	1600	1	182.4	6	957B

*TOLERANCE AND VOLTAGE DESIGNATION Tolerance designation — The type numbers listed indicate a tolerance of $\pm 5\%$.

1SMA5913BAT THRU 1SMA5957BAT

PACKAGE OUTLINE :SMA



UNIT		A	D	E	H _E	c	e	g	a
mm	max	2.2	4.5	2.7	5.2	0.31	1.6	1.5	0.3
	min	1.9	4.0	2.3	4.7	0.15	1.3	0.9	
mil	max	87	181	106	205	12	63	59	12
	min	75	157	91	185	6	51	35	

The recommended mounting pad size

