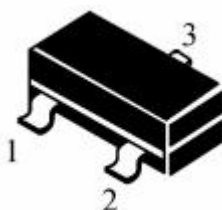
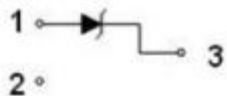


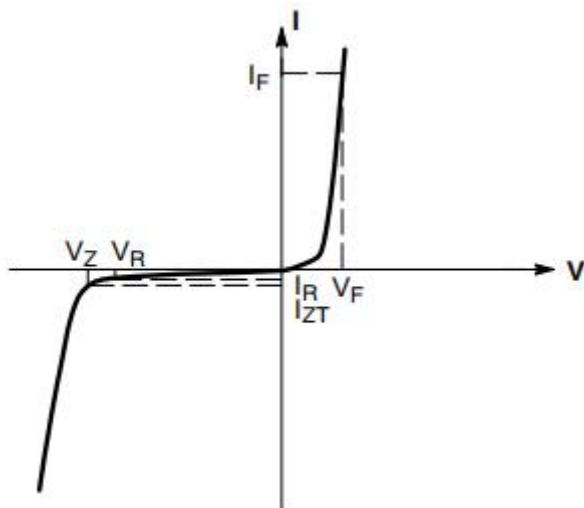
SOT-23 Surface Mounted Zener Diode 表面贴装稳压二极管

■ SOT-23 Internal Configuration 内部结构



■ Features 特点

Characteristic 特性参数	Symbol 符号	Max 最大值	Unit 单位
Power dissipation 耗散功率	P_D ($T_a=25^\circ\text{C}$)	300	mW
Forward Current 正向电流	I_F	250	mA
Forward Voltage 正向电压	V_F (@ $I_F=10\text{mA}$)	0.9	V
Reverse Voltage 反向电压	V_Z	2.4-75	V
Junction and Storage Temperature 结温和储藏温度	T_J, T_{stg}	125°C, -55to+125°C	



■ Electrical Characteristics 电特性

(TA=25℃ unless otherwise noted 如无特殊说明, 温度为 25℃)

Type	V _Z (V)				I _R (μA)		Z _{TT} (ohm)		Z _{ZK} (ohm)		Mark ing
	Nom	Min	Max	@I _Z (mA)	Max	@V _R (V)	Max	@I _Z (mA)	Max	@I _Z (mA)	
BZX84B2V4	2.4	2.35	2.45	5	50	1	100	5	600	1.0	2Z11
BZX84B2V7	2.7	2.64	2.76	5	20	1	100	5	600	1.0	2Z12
BZX84B3V0	3.0	2.94	3.06	5	10	1	95	5	600	1.0	2Z13
BZX84B3V3	3.3	3.23	3.37	5	5	1	95	5	600	1.0	2Z14
BZX84B3V6	3.6	3.52	3.68	5	5	1	90	5	600	1.0	2Z15
BZX84B3V9	3.9	3.82	3.98	5	3	1	90	5	600	1.0	2Z16
BZX84B4V3	4.3	4.21	4.39	5	3	1	90	5	600	1.0	2Z17
BZX84B4V7	4.7	4.60	4.80	5	3	2	80	5	500	1.0	2Z1
BZX84B5V1	5.1	4.99	5.21	5	2	2	60	5	480	1.0	2Z2
BZX84B5V6	5.6	5.48	5.72	5	1	2	40	5	400	1.0	2Z3
BZX84B6V2	6.2	6.07	6.33	5	3	4	10	5	150	1.0	2Z4
BZX84B6V8	6.8	6.66	6.94	5	2	4	15	5	80	1.0	2Z5
BZX84B7V5	7.5	7.35	7.65	5	1	5	15	5	80	1.0	2Z6
BZX84B8V2	8.2	8.03	8.37	5	0.7	5	15	5	80	1.0	2Z7
BZX84B9V1	9.1	8.91	9.29	5	0.5	6	15	5	100	1.0	2Z8
BZX84B10	10	9.80	10.20	5	0.2	7	20	5	150	1.0	2Z9
BZX84B11	11	10.78	11.22	5	0.1	8	20	5	150	1.0	2Y1
BZX84B12	12	11.76	12.24	5	0.1	8	25	5	150	1.0	2Y2
BZX84B13	13	12.74	13.26	5	0.1	8	30	5	170	1.0	2Y3
BZX84B15	15	14.70	15.30	5	0.05	10.5	30	5	200	1.0	2Y4
BZX84B16	16	15.68	16.32	5	0.05	11.2	40	5	200	1.0	2Y5
BZX84B18	18	17.64	18.36	5	0.05	12.6	45	5	225	1.0	2Y6
BZX84B20	20	19.60	20.40	5	0.05	14.0	55	5	225	1.0	2Y7
BZX84B22	22	21.56	22.44	5	0.05	15.4	55	5	250	1.0	2Y8
BZX84B24	24	23.52	24.48	5	0.05	16.8	70	5	250	1.0	2Y9
BZX84B27	27	26.46	27.54	2	0.05	18.9	80	2	300	0.5	2Y10
BZX84B30	30	29.40	30.60	2	0.05	21.0	80	2	300	0.5	2Y11
BZX84B33	33	32.34	33.66	2	0.05	23.1	80	2	325	0.5	2Y12
BZX84B36	36	35.28	36.72	2	0.05	25.2	90	2	350	0.5	2Y13
BZX84B39	39	38.22	39.78	2	0.05	27.3	130	2	350	0.5	2Y14
BZX84B43	43	42.14	43.86	2	0.05	30.1	150	2	375	0.5	2Y15
BZX84B47	47	46.06	47.94	2	0.05	32.9	170	2	375	0.5	2Y16
BZX84B51	51	49.98	52.02	2	0.05	35.7	180	2	400	0.5	2Y17
BZX84B56	56	54.88	57.12	2	0.05	39.2	200	2	425	0.5	2Y18
BZX84B62	62	60.76	63.24	2	0.05	43.4	215	2	450	0.5	2Y19
BZX84B68	68	66.64	69.36	2	0.05	47.6	240	2	475	0.5	2Y20
BZX84B75	75	73.50	76.50	2	0.05	52.5	255	2	500	0.5	2Y21

■ Typical Characteristic Curve 典型特性曲线

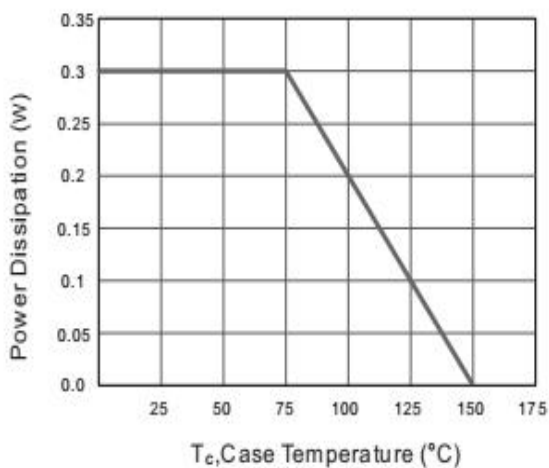


Figure 1: Power Derating Curve

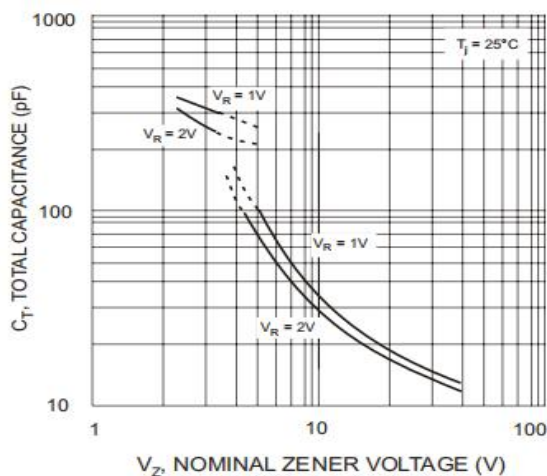


Figure 2: Capacitance Characteristics

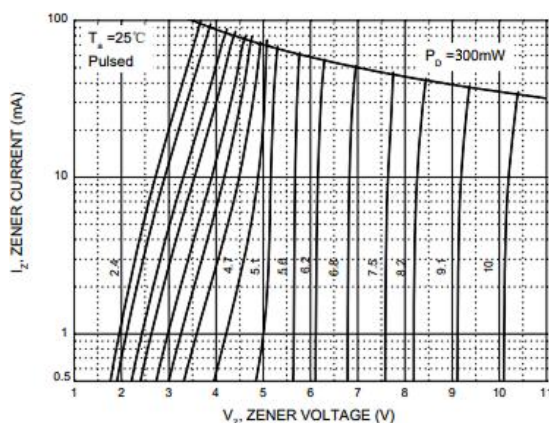


Figure 3: Zener Breakdown Characteristics

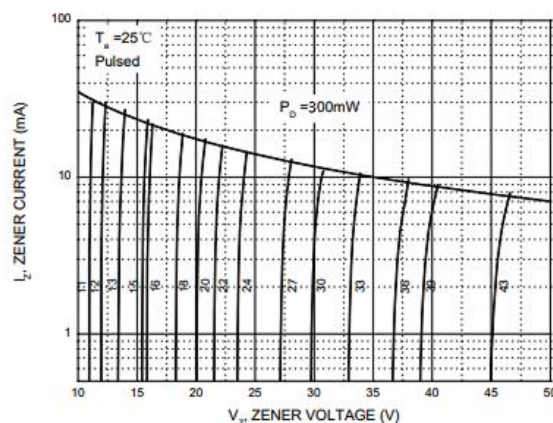


Figure 4: Zener Breakdown Characteristics

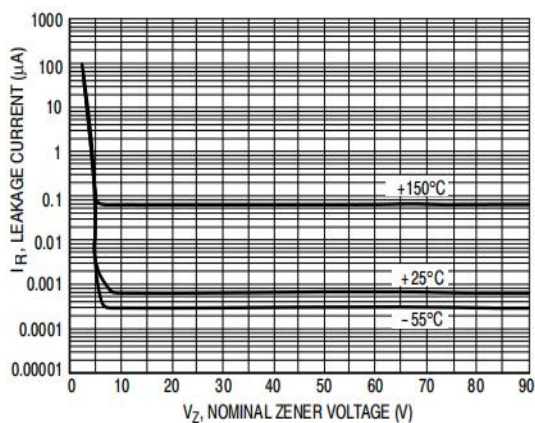
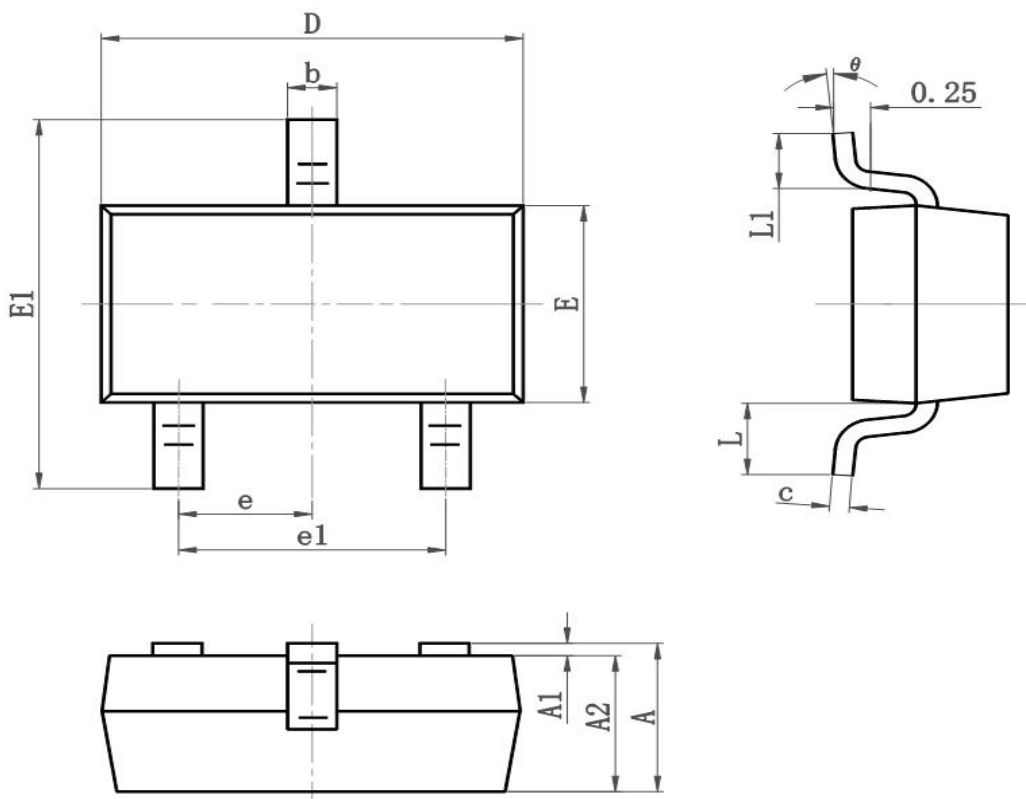


Figure 5: Leakage Current

■Dimension 外形封装尺寸



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.050	0.055
E1	2.250	2.550	0.089	0.100
e	0.900	1.00	0.035	0.039
e1	1.800	2.000	0.071	0.079
L	0.500	0.600	0.020	0.024
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°