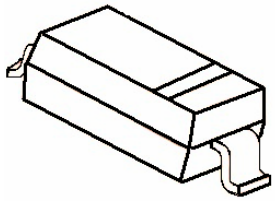
SOD-323 贴片塑封稳压二极管

SOD-323

SOD-323 Plastic-Encapsulate Zener Diode



特征 Features

- 齐纳击穿阻抗低; Low Zener Impedance
- 最大功率耗散 200mW; Power Dissipation of 200mW
- 高稳定性和可靠性。High Stability and High Reliability

机械数据 Mechanical Data

- 封装: SOD-323 封装 SOD-323 Small Outline Plastic Package
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 安装位置: 任意 Mounting Position: Any

极限值和温度特性(TA = 25℃ 除非另有规定)

Maximum Ratings & Thermal Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified.)

参数 Parameters	符号 Symbol	数值 Value	单位 Unit
功率消耗 Power Dissipation	Pd	200 1)	mW
正向压降 Forward Voltage @IF=10mA	Vf	0.9 2)	V
存储温度 Storage temperature range	Ts	-65-+150	℃

1) Device mounted on ceramic PCB: 7.6mm x 9.4mm x 0.87mm with pad areas 25mm²
2) Short duration test pulse used to minimize self-heating effect
3) f=1KHz

电特性 (TA = 25℃ 除非另有规定)

Electrical Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified).

Device	Marking	Zener Voltage Range				Maximum Zener Impedance			Maximum Reverse Current		Typical Temperature coefficent @ IZTC=mV/℃		Test Current IZTC
		Vz@Izt			Izt	Zzt @Izt	Zzk @Izk	Izk	IR	VR			
		Nom(V)	Min(V)	Max(V)	mA	Ω		mA	uA	V	Min	Max	mA
UDZS 3V6B	D0	3.6	3.60	3.85	5	90	600	1.0	4.5	1.0	-3.5	0	5
UDZS 3V9B	D1	3.9	3.89	4.16	5	90	600	1.0	2.7	1.0	-3.5	0	5
UDZS 4V3B	D2	4.3	4.17	4.43	5	90	600	1.0	2.7	1.0	-3.5	0	5
UDZS 4V7B	D3	4.7	4.55	4.75	5	80	500	1.0	2.7	1.0	-3.5	0.2	5
UDZS 5V1B	D4	5.1	4.98	5.20	5	60	500	1.0	1.8	2.0	-2.7	1.2	5
UDZS 5V6B	D5	5.6	5.49	5.73	5	40	300	1.0	0.9	3.0	-2.0	2.5	5
UDZS 6V2B	D6	6.2	6.06	6.33	5	40	150	1.0	2.7	3.0	0.4	3.7	5
UDZS 6V8B	D7	6.8	6.65	6.93	5	30	75	1.0	1.8	4.0	1.2	4.5	5
UDZS 7V5B	D8	7.5	7.28	7.60	5	30	75	1.0	0.9	4.0	2.5	5.3	5
UDZS 8V2B	D9	8.2	8.02	8.36	5	30	75	1.0	0.63	5.0	3.2	6.2	5
UDZS 9V1B	DA	9.1	8.85	9.23	5	30	90	1.0	0.45	6.0	3.8	7.0	5
UDZS 10B	DB	10	9.77	10.21	5	20	150	1.0	0.18	7.0	4.5	8.0	5
UDZS 11B	DC	11	10.76	11.22	5	20	150	1.0	0.09	8.0	5.4	9.0	5
UDZS 12B	DE	12	11.74	12.24	5	20	150	1.0	0.09	9.0	6.0	10.0	5
UDZS 13B	DF	13	12.91	13.49	5	40	160	1.0	0.045	10.0	7.0	11.0	5
UDZS 15B	DG	15	14.34	14.98	5	40	190	1.0	0.045	11	9.2	13.0	5
UDZS 16B	DH	16	15.85	16.51	5	40	190	1.0	0.045	12	10.4	14.0	5
UDZS 18B	DJ	18	17.56	18.35	5	50	220	1.0	0.045	13	12.4	16.0	5
UDZS 20B	DK	20	19.52	20.39	5	60	220	1.0	0.045	15	14.4	18.0	5

UDZSxxB Series

Device	Marking	Zener Voltage Range				Maximum Zener Impedance			Maximum Reverse Current		Typical Temperature coefficent @ IZTC=mV/℃		Test Current IZTC
		Vz@Izt			Izt	Zzt @Izt	Zzk @Izk	Izk	IR	VR			
		Nom(V)	Min(V)	Max(V)	mA	Ω		mA	uA	V	Min	Max	mA
UDZS 22B	DL	22	21.54	22.47	5	80	240	1.0	0.045	17	16.4	20.0	5
UDZS 24B	DM	24	23.72	24.78	5	80	240	1.0	0.045	19	18.4	22.0	5
UDZS 27B	DN	27	26.19	27.53	5	100	300	0.5	0.045	21	21.4	25.3	2
UDZS 30B	DP	30	29.19	30.69	5	100	300	0.5	0.045	23	24.4	29.4	2
UDZS 33B	DR	33	32.15	33.79	5	100	310	0.5	0.045	25	27.4	33.4	2
UDZS 36B	DS	36	35.07	36.87	5	100	330	0.5	0.045	27	30.4	37.4	2

ELECTRICAL CHARACTERISTIC CURVES (Ta=25C)

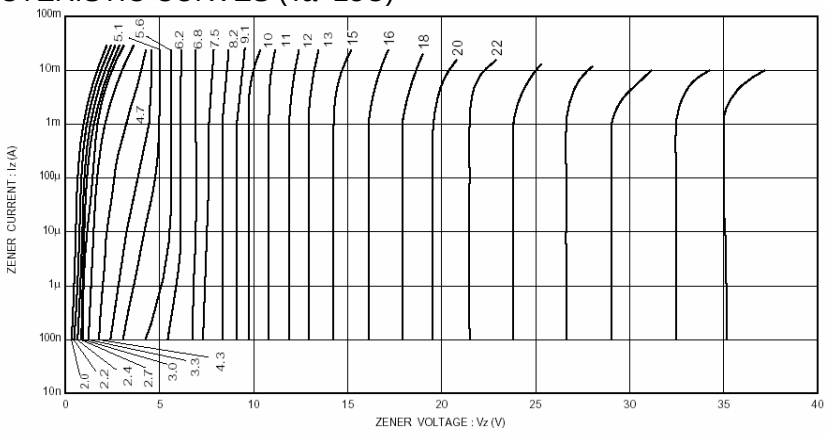


Fig.1 Zener voltage characteristics

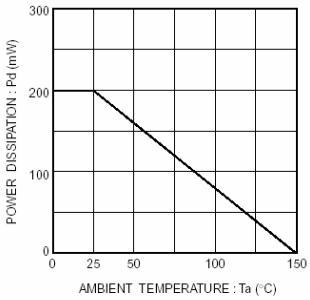


Fig.2 Derating curve

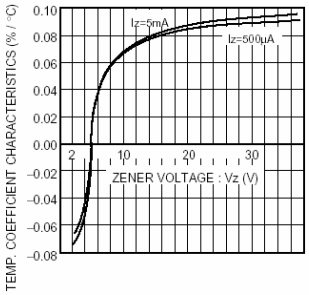


Fig.3 Zener voltage-temp. coefficient characteristics

SOD-323 PACKAGE OUTLINE Plastic surface mounted package

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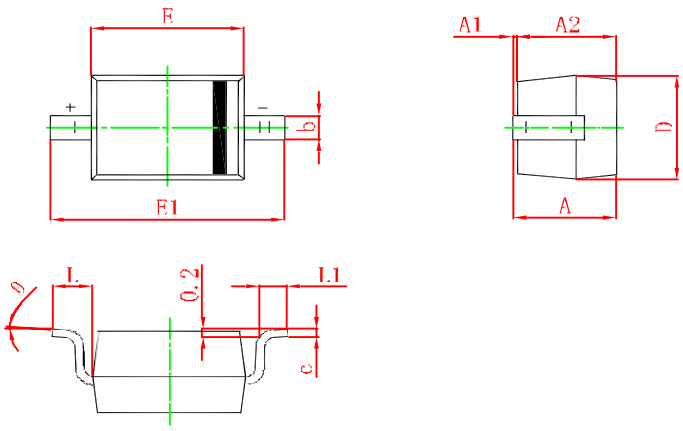

Symbol	Min.(mm)	Max.(mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.350
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
θ	**0°**	**8°**