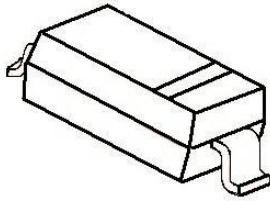
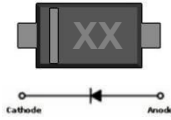


SOD-123**SOD-123 贴片塑封稳压二极管****SOD-123 Plastic-Encapsulate Zener Diode****Marking:****特征 Features**

- 齐纳击穿阻抗低; Low Zener Impedance
- 最大功率耗散 500mW; Power Dissipation of 500mW
- 高稳定性和可靠性。High Stability and High Reliability

机械数据 Mechanical Data

- 封装: SOD-123 封装 SOD-123 Small Outline Plastic Package
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 环氧树脂UL 易燃等级 Epoxy UL: 94V-0
- 安装位置: 任意 Mounting Position: Any

极限值和温度特性(TA = 25°C 除非另有规定)

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

参数 Parameters	符号 Symbol	数值 Value	单位 Unit
功率消耗 Power Dissipation	Pd	500 ¹⁾	mW
正向压降 Forward Voltage @IF=10mA	Vf	0.9 ²⁾	V
热阻 Thermal Resistance, Junction-to-Ambient	R _{θJA}	340 ³⁾	°C/W
热阻 Thermal Resistance, Junction-to-Lead	R _{θJL}	150 ³⁾	°C/W
存储温度 Storage temperature range	Ts	-65-+150	°C
结温 Junction temperature	Tj	150	°C

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) Thermal Resistance measurement obtained via infrared Scan Method.

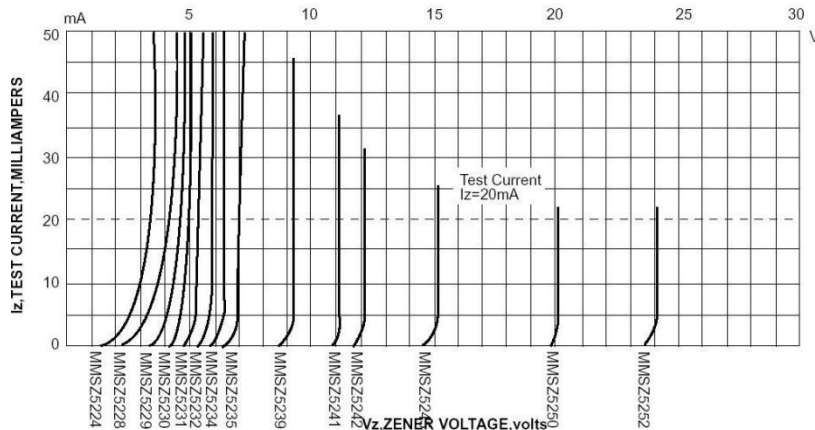
电特性 (TA = 25°C 除非另有规定)

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

型号	印字 (代码)	Vz1(@Izt)				Zzt@Izt	Zzk		IR	
		Nom (V)	Min (V)	Max (V)	Izt mA	Max Ω	Max Ω	Izk mA	Max uA	VR V
MMSZ5221B	C1	2.4	2.28	2.52	20	30	1200	0.25	100	1
MMSZ5222B	C2	2.5	2.38	2.63	20	30	1250	0.25	100	1
MMSZ5223B	C3	2.7	2.57	2.84	20	30	1300	0.25	75	1
MMSZ5224B	C4	2.8	2.66	2.94	20	30	1400	0.25	75	1
MMSZ5225B	C5	3.0	2.85	3.15	20	30	1600	0.25	50	1
MMSZ5226B	G1	3.3	3.14	3.47	20	28	1600	0.25	25	1
MMSZ5227B	G2	3.6	3.42	3.78	20	24	1700	0.25	15	1
MMSZ5228B	G3	3.9	3.71	4.1	20	23	1900	0.25	10	1
MMSZ5229B	G4	4.3	4.09	4.52	20	22	2000	0.25	5	1
MMSZ5230B	G5	4.7	4.47	4.94	20	19	1900	0.25	5	2
MMSZ5231B	E1	5.1	4.85	5.36	20	17	1600	0.25	5	2
MMSZ5232B	E2	5.6	5.32	5.88	20	11	1600	0.25	5	3
MMSZ5233B	E3	6.0	5.7	6.3	20	7	1600	0.25	5	3.5
MMSZ5234B	E4	6.2	5.89	6.51	20	7	1000	0.25	5	4
MMSZ5235B	E5	6.8	6.46	7.14	20	5	750	0.25	3	5
MMSZ5236B	F1	7.5	7.13	7.88	20	6	500	0.25	3	6
MMSZ5237B	F2	8.2	7.79	8.61	20	8	500	0.25	3	6.5

型号	印字 (代码)	Vz1(@Izt)				Zzt@Izt	Zzk		IR	
		Nom	Min	Max	Izt	Max	Max	Izk	Max	VR
		(V)	(V)	(V)	mA	Ω	Ω	mA	μ A	V
MMSZ5238B	F3	8.7	8.27	9.14	20	8	600	0.25	3	6.5
MMSZ5239B	F4	9.1	8.65	9.56	20	10	600	0.25	3	7
MMSZ5240B	F5	10.0	9.5	10.5	20	17	600	0.25	3	8
MMSZ5241B	H1	11.0	10.45	11.55	20	22	600	0.25	2	8.4
MMSZ5242B	H2	12.0	11.4	12.6	20	30	600	0.25	1	9.1
MMSZ5243B	H3	13.0	12.35	13.65	9.5	13	600	0.25	0.5	9.9
MMSZ5244B	H4	14.0	13.3	14.7	9	15	600	0.25	0.1	10
MMSZ5245B	H5	15.0	14.25	15.75	8.5	16	600	0.25	0.1	11
MMSZ5246B	J1	16.0	15.2	16.8	7.8	17	600	0.25	0.1	12
MMSZ5247B	J2	17.0	16.15	17.85	7.5	19	600	0.25	0.1	13
MMSZ5248B	J3	18.0	17.1	18.9	7	21	600	0.25	0.1	14
MMSZ5249B	J4	19.0	18.05	19.95	6.6	23	600	0.25	0.1	14
MMSZ5250B	J5	20.0	19	21	6.2	25	600	0.25	0.1	15
MMSZ5251B	K1	22.0	20.9	23.1	5.6	29	600	0.25	0.1	17
MMSZ5252B	K2	24.0	22.8	25.2	5.2	33	600	0.25	0.1	18
MMSZ5253B	K3	25.0	23.75	26.25	5	35	600	0.25	0.1	19
MMSZ5254B	K4	27.0	25.65	28.35	5	41	600	0.25	0.1	21
MMSZ5255B	K5	28.0	26.6	29.4	4.5	44	600	0.25	0.1	21
MMSZ5256B	M1	30.0	28.5	31.5	4.2	49	600	0.25	0.1	23
MMSZ5257B	M2	33.0	31.35	34.65	3.8	58	700	0.25	0.1	25
MMSZ5258B	M3	36.0	34.2	37.8	3.4	70	700	0.25	0.1	27
MMSZ5259B	M4	39.0	37.05	40.95	3.2	80	800	0.25	0.1	30
MMSZ5260B	M5	43.0	40.85	45.15	3	93	900	0.25	0.1	33
MMSZ5261B	N1	47.0	44.65	49.35	2.7	105	1000	0.25	0.1	36
MMSZ5262B	N2	51.0	48.45	53.55	2.5	125	1100	0.25	0.1	39
MMSZ5263B	N3	56.0	53.2	58.8	2.2	150	1300	0.25	0.1	43
MMSZ5264B	N4	60.0	57	63	2.1	170	1400	0.25	0.1	46
MMSZ5265B	N5	62.0	58.9	65.1	2	185	1400	0.25	0.1	47
MMSZ5266B	P1	68.0	64.6	71.4	1.8	230	1600	0.25	0.1	52
MMSZ5267B	P2	75.0	71.25	78.75	1.7	270	1700	0.25	0.1	56

Breakdown characteristics



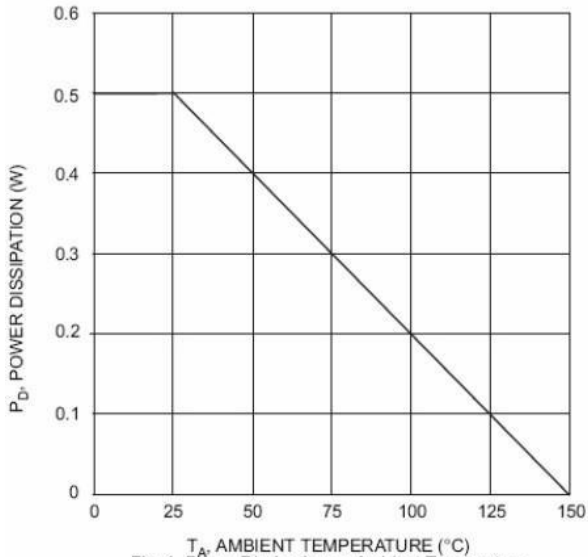


Fig. 1 Power Dissipation vs Ambient Temperature

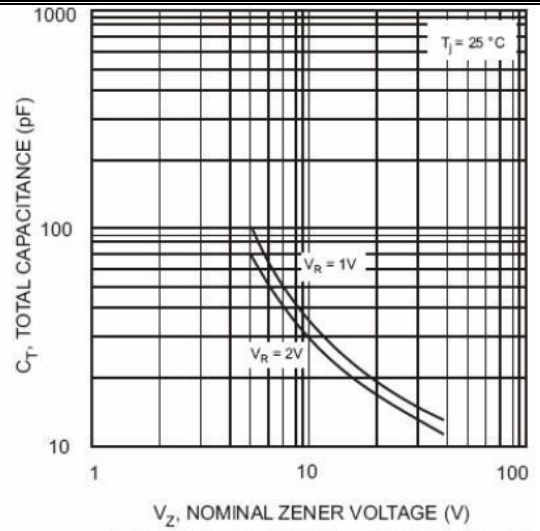


Fig. 2 Total Capacitance vs Nominal Zener Voltage

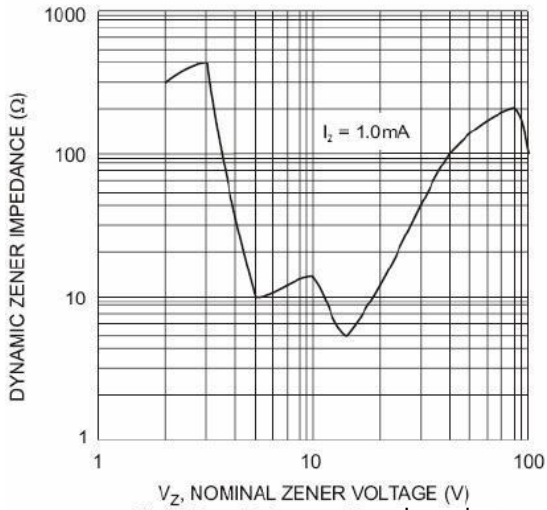


Fig. 3 Zener Voltage vs. Zener Impedance

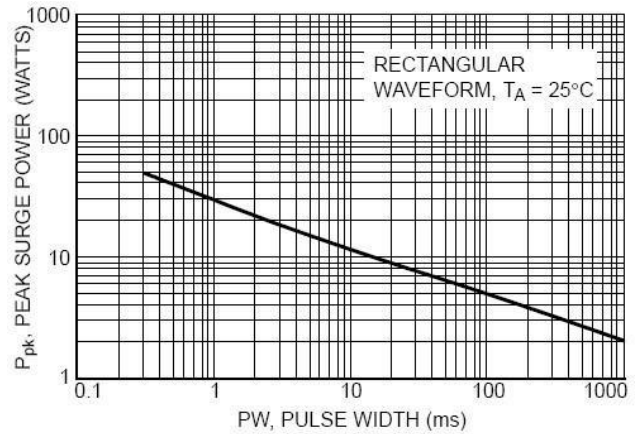
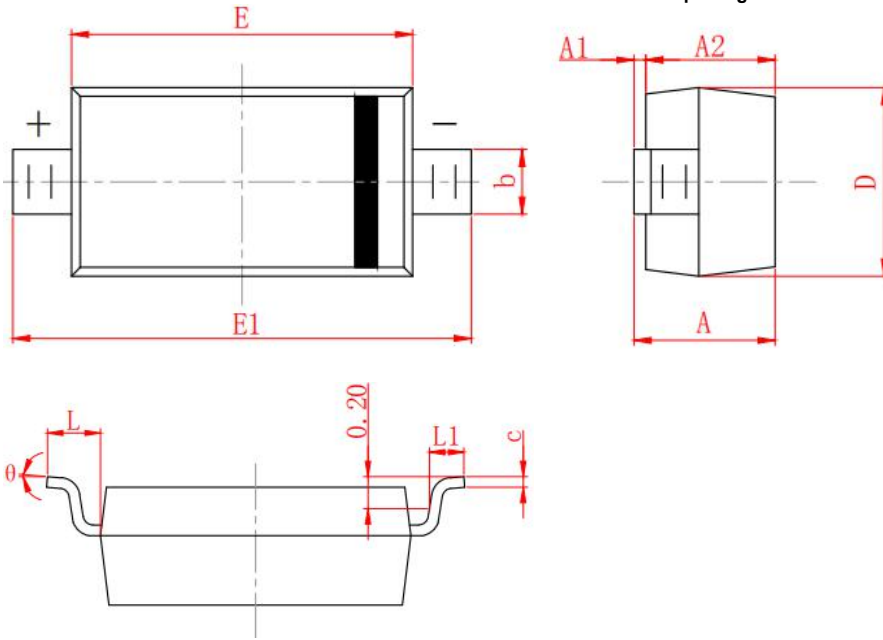


Fig. 4. Maximum Nonrepetitive Surge Power

SOD-123 PACKAGE OUTLINE

Plastic surface mounted package

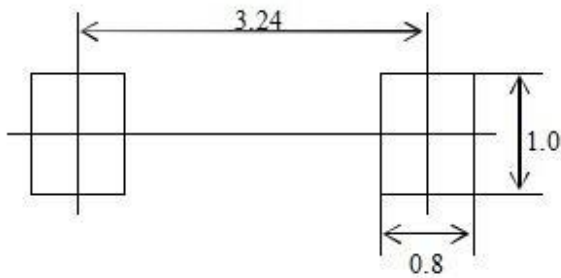


SYMBOL	MILLIMETER	
	MIN	MAX
A	1.050	1.250
A1	0.000	0.100
A2	1.050	1.150
b	0.450	0.650
c	0.008	0.150
D	1.500	1.700
E	2.600	2.800
E1	3.550	3.850
L	0.500 (REF)	
L1	0.250	0.450
θ	0°	8°

焊盘设计参考

Precautions: PCB Design

Recommended land dimensions for SOD-123 diode. Electrode patterns for PCBs



中心距: 3.24
脚宽: 0.55
焊盘宽: 1.00
脚长: 0.50
焊盘长: 0.80

技术要求:

1. 塑封体尺寸: 2.70 X 1.60
2. 未注公差为: ±0.05
3. 所有单位: mm