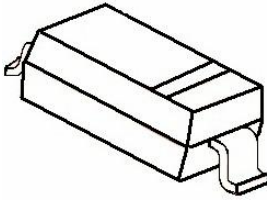


SOD-323

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
- 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℃ 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 Reverse Current	
		Vz@Izt			Izt uA	IR uA	VR V
		Min(V)	Nom (V)	Max(V)			
MMSZ4678S	CC	1.71	1.8	1.89	50	7.5	1
MMSZ4679S	CD	1.90	2.0	2.10	50	5	1
MMSZ4680S	CE	2.09	2.2	2.31	50	4	1
MMSZ4681S	CF	2.28	2.4	2.52	50	2	1
MMSZ4682S	CH	2.57	2.7	2.84	50	1	1
MMSZ4683S	CJ	2.85	3.0	3.15	50	0.8	1
MMSZ4684S	CK	3.13	3.3	3.47	50	7.5	1.5
MMSZ4685S	CM	3.42	3.6	3.78	50	7.5	2
MMSZ4686S	CN	3.70	3.9	4.10	50	5	2
MMSZ4687S	CP	4.09	4.3	4.52	50	4	2
MMSZ4688S	CT	4.47	4.7	4.94	50	10	3
MMSZ4689S	CU	4.85	5.1	5.36	50	10	3
MMSZ4690S	CV	5.32	5.6	5.88	50	10	4
MMSZ4691S	CA	5.89	6.2	6.51	50	10	5
MMSZ4692S	CX	6.46	6.8	7.14	50	10	5.1
MMSZ4693S	CY	7.13	7.5	7.88	50	10	5.7
MMSZ4694S	CZ	7.79	8.2	8.61	50	1	6.2
MMSZ4695S	DC	8.27	8.7	9.14	50	1	6.6

MMSZ4xxxS Series

Device	Marking	Zener Voltage Range				Maximum Reverse Current	
		V _Z @I _{ZT}			I _{ZT} uA	I _R uA	V _R V
		Nom(V)	Min(V)	Max(V)			
MMSZ4696S	DD	8.65	9.1	9.56	50	1	6.9
MMSZ4697S	DE	9.50	10.0	10.50	50	1	7.6
MMSZ4698S	DF	10.45	11.0	11.55	50	0.05	8.4
MMSZ4699S	DH	11.40	12.0	12.60	50	0.05	9.1
MMSZ4700S	DJ	12.35	13.0	13.65	50	0.05	9.8
MMSZ4701S	DK	13.30	14.0	14.70	50	0.05	10.6
MMSZ4702S	DM	14.25	15.0	15.75	50	0.05	11.4
MMSZ4703S	DN	15.20	16.0	16.80	50	0.05	12.1
MMSZ4704S	DP	16.15	17.0	17.85	50	0.05	12.9
MMSZ4705S	DT	17.10	18.0	18.90	50	0.05	13.6
MMSZ4706S	DU	18.05	19.0	19.95	50	0.05	14.4
MMSZ4707S	DV	19.00	20.0	21.00	50	0.01	15.2
MMSZ4708S	DA	20.90	22.0	23.10	50	0.01	16.7
MMSZ4709S	DX	22.80	24.0	25.20	50	0.01	18.2
MMSZ4710S	DY	23.75	25.0	26.25	50	0.01	19
MMSZ4711S	EA	25.65	27.0	28.35	50	0.01	20.4
MMSZ4712S	EC	26.60	28.0	29.40	50	0.01	21.2
MMSZ4713S	ED	28.50	30.0	31.50	50	0.01	22.8
MMSZ4714S	EE	31.35	33.0	34.65	50	0.01	25
MMSZ4715S	EF	34.20	36.0	37.80	50	0.01	27.3
MMSZ4716S	EH	37.05	39.0	40.95	50	0.01	29.6
MMSZ4717S	EJ	40.85	43.0	45.15	50	0.01	32.6

TYPICAL CHARACTERISTICS

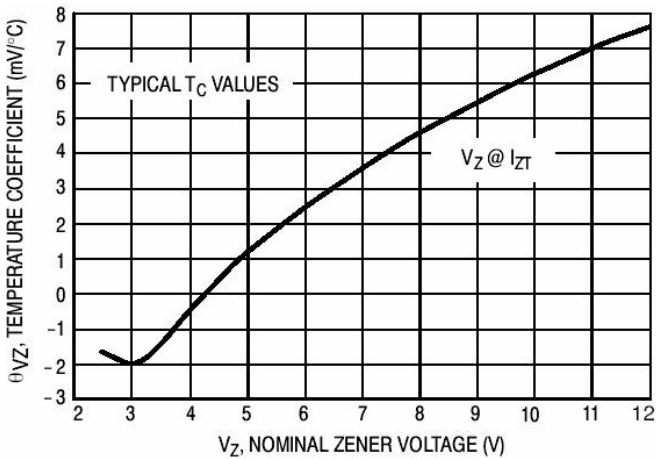


Figure 1. Temperature Coefficients
(Temperature Range -55°C to +150°C)

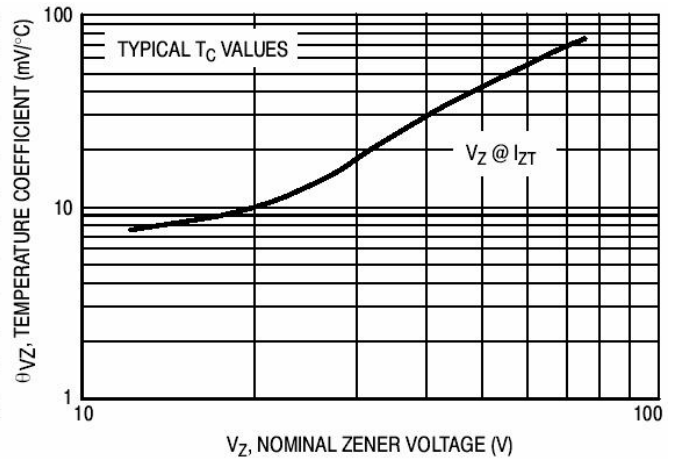


Figure 2. Temperature Coefficients
(Temperature Range -55°C to +150°C)

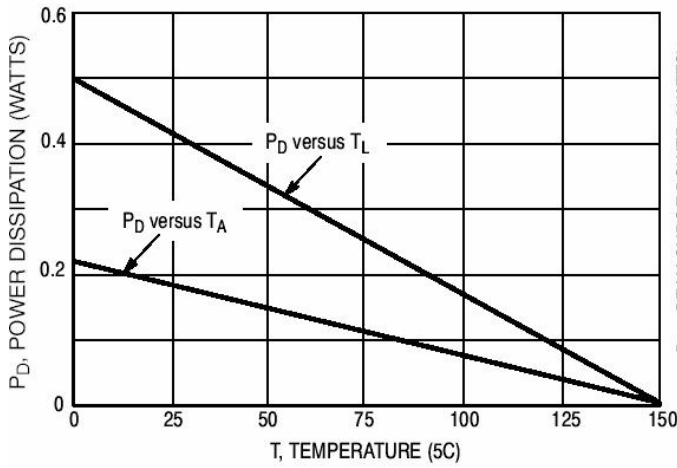


Figure 3. Steady State Power Derating

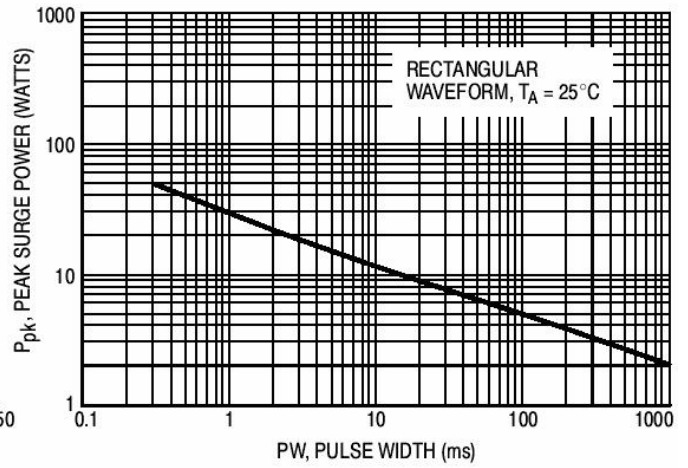


Figure 4. Maximum Nonrepetitive Surge Power

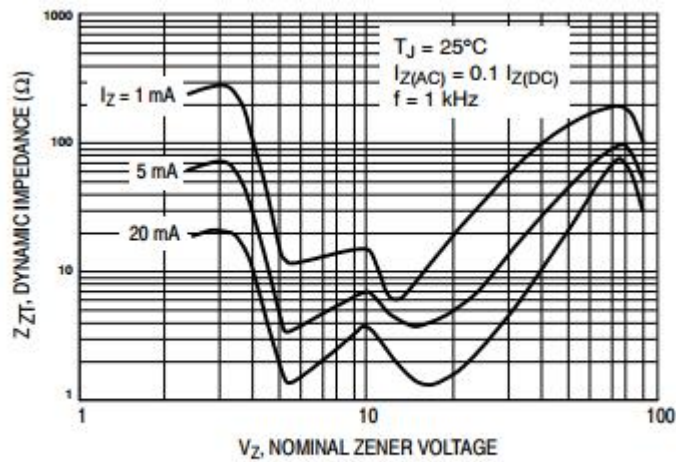


Figure 5. Effect of Zener Voltage on Zener Impedance

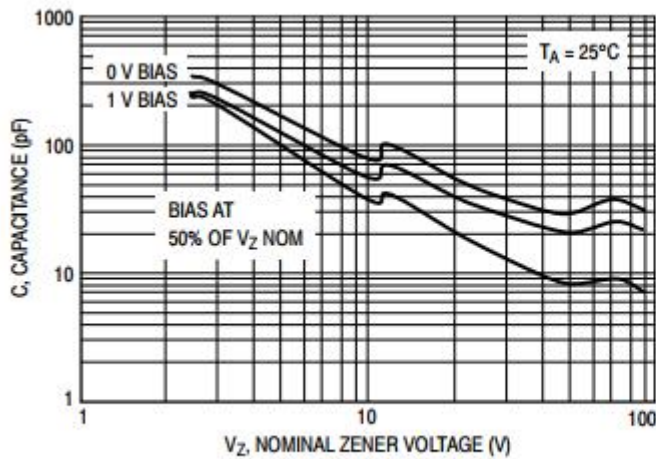


Figure 6. Typical Capacitance

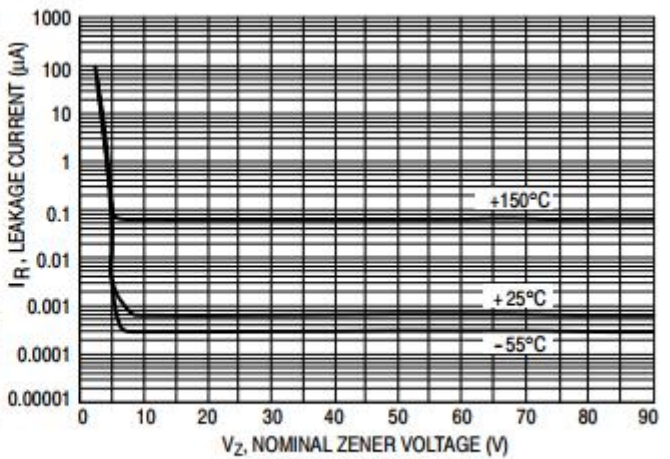


Figure 7. Typical Leakage Current

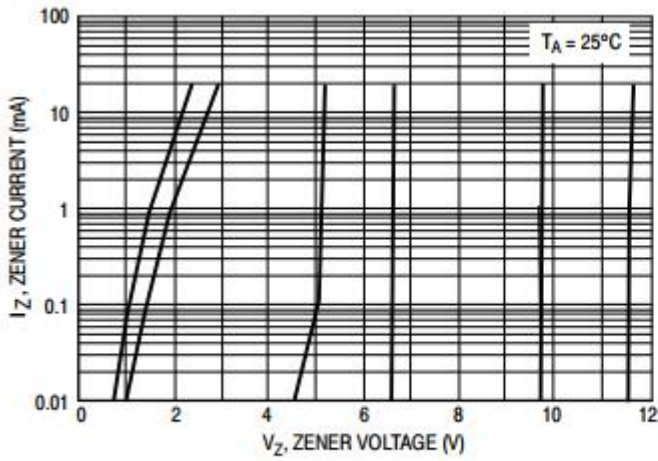


Figure 8. Zener Voltage versus Zener Current (V_Z Up to 12 V)

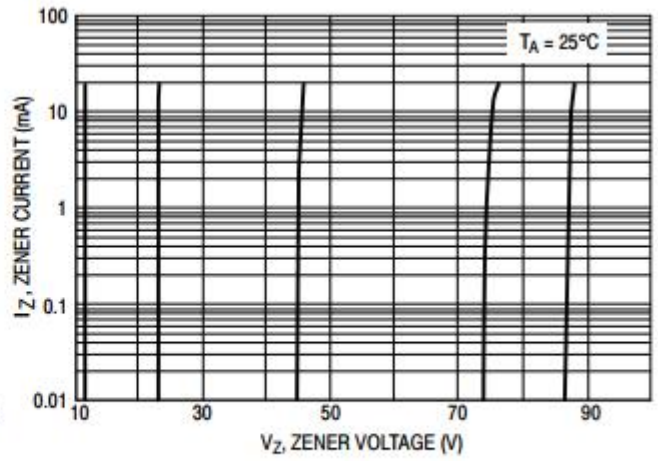
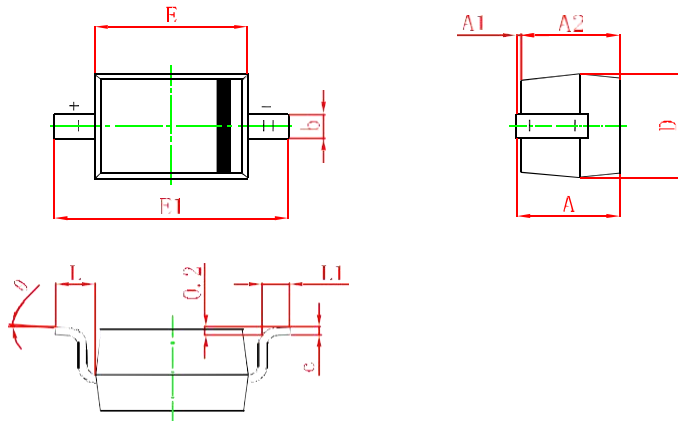


Figure 9. Zener Voltage versus Zener Current (12V to 43V)

SOD-323 PACKAGE OUTLINE Plastic surface mounted package

SOD-323



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°