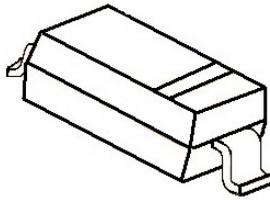


SOD-323

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°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	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	°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) f=1KHz

电特性 (TA = 25°C 除非另有规定)

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

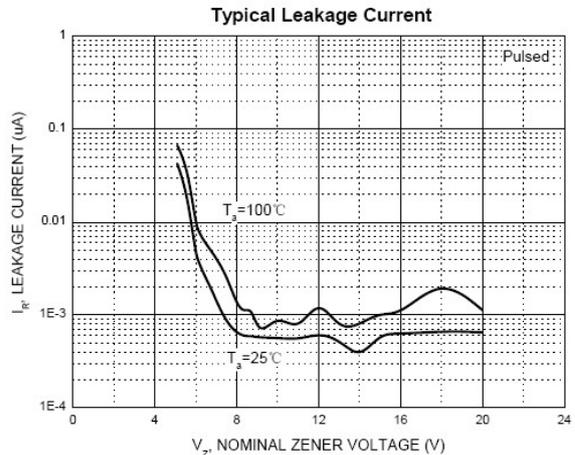
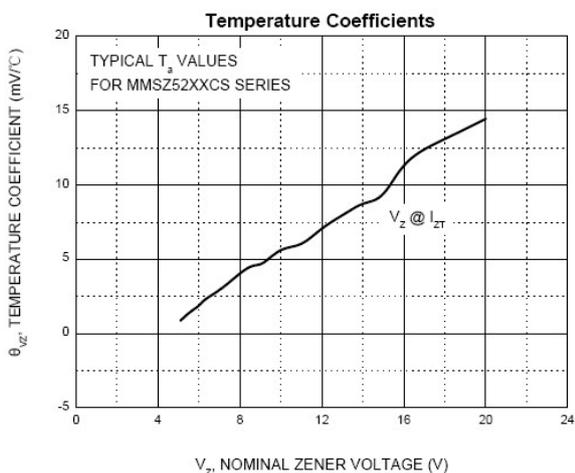
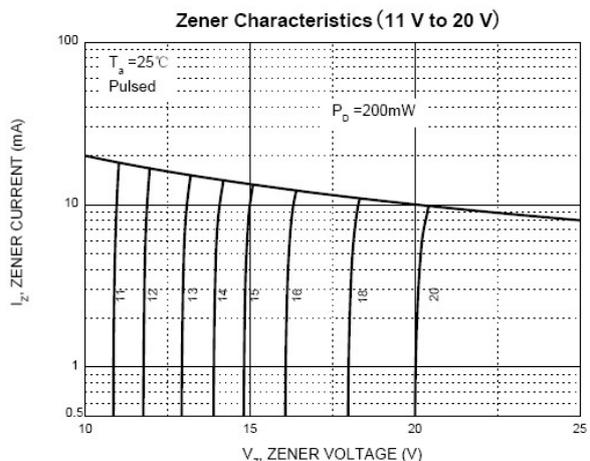
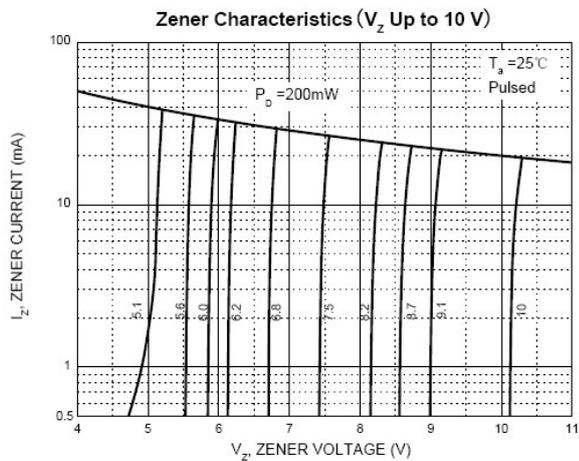
Type Number	Code	Zener Voltage Range (Note 2)			Test Current	Maximum Zener Impedance		Maximum Reverse Leakage Current	
		V _Z @I _{ZT}				I _{ZT}	Z _{ZT} @I _{ZT}	Z _{ZK} @I _{ZK} = 0.25mA	I _R
		Nom(V)	Min(V)	Max(V)	mA				
MMSZ5221CS	2C1	2.4	2.35	2.45	20	30	1200	100	1.0
MMSZ5223CS	2C3	2.7	2.65	2.75	20	30	1300	75	1.0
MMSZ5225CS	2C5	3.0	2.94	3.06	20	30	1600	50	1.0
MMSZ5226CS	2G1	3.3	3.23	3.37	20	28	1600	25	1.0
MMSZ5227CS	2G2	3.6	3.53	3.67	20	24	1700	15	1.0
MMSZ5228CS	2G3	3.9	3.82	3.98	20	23	1900	10	1.0
MMSZ5229CS	2G4	4.3	4.21	4.39	20	22	2000	5.0	1.0
MMSZ5230CS	2G5	4.7	4.61	4.79	20	19	1900	5.0	2.0
MMSZ5231CS	2E1	5.1	5.00	5.20	20	17	1600	5.0	2.0
MMSZ5232CS	2E2	5.6	5.49	5.71	20	11	1600	5.0	3.0
MMSZ5233CS	2E3	6.0	5.88	6.12	20	7	1600	5.0	3.5
MMSZ5234CS	2E4	6.2	6.08	6.32	20	7	1000	5.0	4.0
MMSZ5235CS	2E5	6.8	6.66	6.94	20	5	750	3.0	5.0
MMSZ5236CS	2F1	7.5	7.35	7.65	20	6	500	3.0	6.0
MMSZ5237CS	2F2	8.2	8.04	8.36	20	8	500	3.0	6.5
MMSZ5238CS	2F3	8.7	8.53	8.87	20	8	600	3.0	6.5
MMSZ5239CS	2F4	9.1	8.92	9.28	20	10	600	3.0	7.0
MMSZ5240CS	2F5	10	9.80	10.20	20	17	600	3.0	8.0

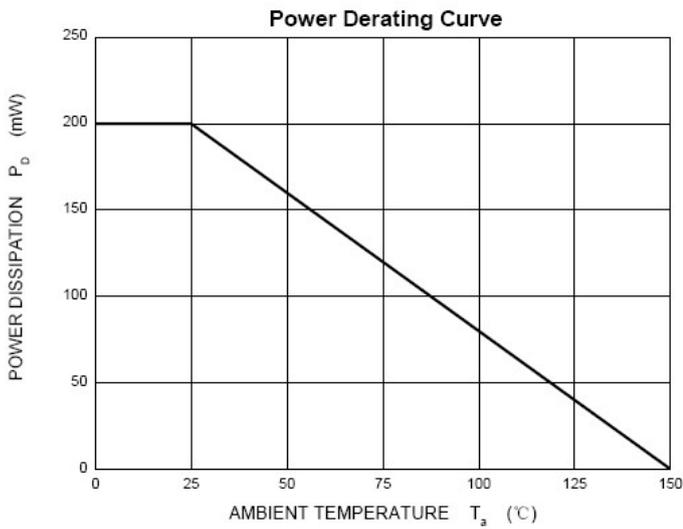
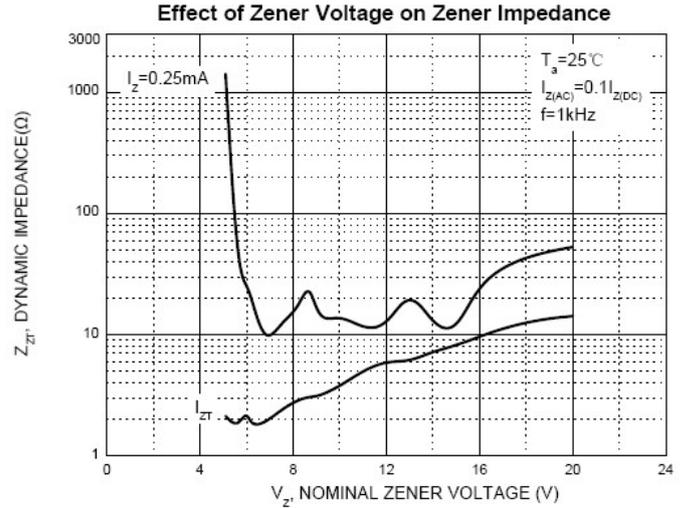
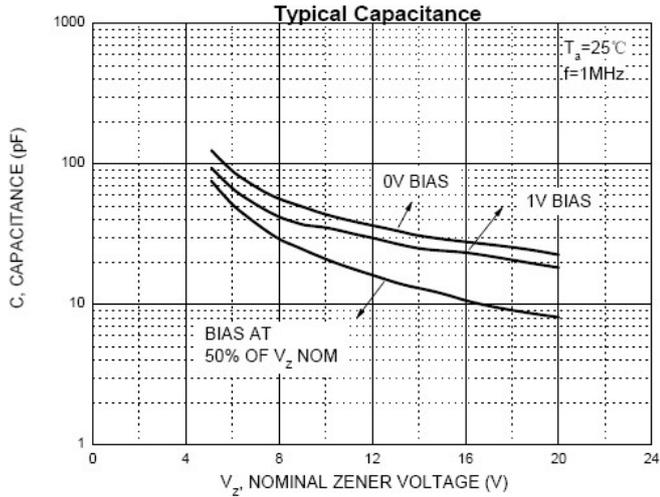
MMSZ521CS- MMSZ5259CS Series

Type Number	Code	Zener Voltage Range (Note 2)			Test Current	Maximum Zener Impedance		Maximum Reverse Leakage Current	
		$V_Z @ I_{ZT}$				I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK} = 0.25mA$	I_R
		Nom(V)	Min(V)	Max(V)	mA	Ω		μA	V
MMSZ5241CS	2H1	11	10.78	11.22	20	22	600	2.0	8.4
MMSZ5242CS	2H2	12	11.76	12.24	20	30	600	1.0	9.1
MMSZ5243CS	2H3	13	12.74	13.26	9.5	13	600	0.5	9.9
MMSZ5244CS	2H4	14	13.72	14.28	9.0	15	600	0.1	10
MMSZ5245CS	2H5	15	14.70	15.30	8.5	16	600	0.1	11
MMSZ5246CS	2J1	16	15.68	16.32	7.8	17	600	0.1	12
MMSZ5248CS	2J3	18	17.64	18.36	7.0	21	600	0.1	14
MMSZ5250CS	2J5	20	19.60	20.40	6.2	25	600	0.1	15
MMSZ5251CS	2K1	22	21.56	22.44	5.6	29	600	0.1	17
MMSZ5252CS	2K2	24	23.52	24.48	5.2	33	600	0.1	18
MMSZ5253CS	2K3	25	24.50	25.50	5.0	35	600	0.1	19
MMSZ5254CS	2K4	27	26.46	27.54	5.0	41	600	0.1	21
MMSZ5255CS	2K5	28	27.44	28.56	4.5	44	600	0.1	21
MMSZ5256CS	2M1	30	29.40	30.60	4.2	49	600	0.1	23
MMSZ5257CS	2M2	33	32.34	33.66	3.8	58	700	0.1	25
MMSZ5258CS	2M3	36	35.28	36.72	3.4	70	700	0.1	27
MMSZ5259CS	2M4	39	38.22	39.78	3.2	80	800	0.1	30

$V_F \leq 0.9V @ I_F = 10mA$

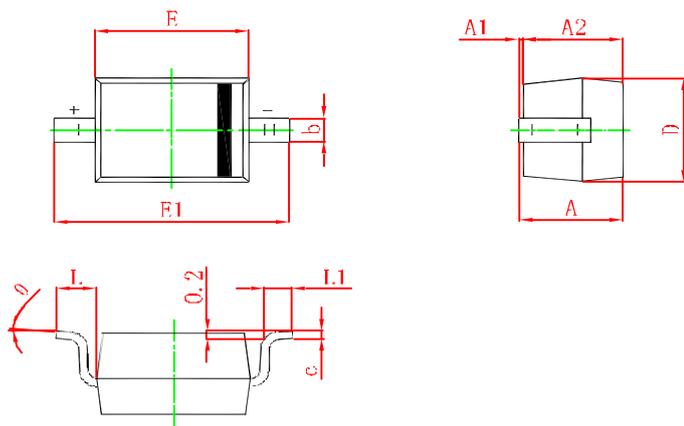
Notes: Our company currently provide 5.1 V - 20 V products only





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°