



安徽富信半导体科技有限公司

ANHUI FOSAN SEMICONDUCTOR TECHNOLOGY CO., LTD.

MM3Z2V0-MM3Z75

SOD-323 Surface Mounted Zener Diode 表面贴装稳压二极管

■SOD-323 Internal Configuration 内部结构

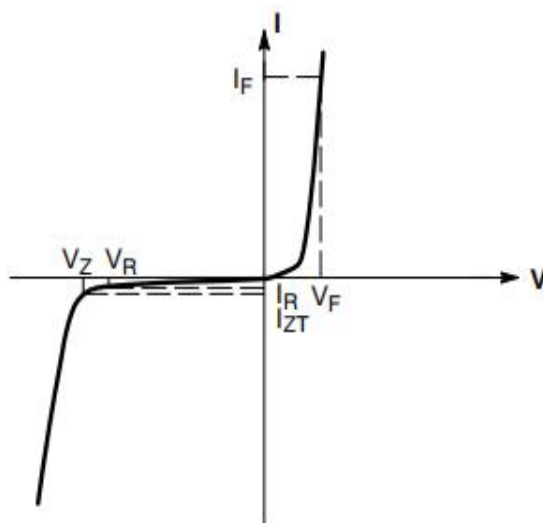


SOD-323

■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 Voltage 正向电压	$V_F(@ I_F=10\text{mA})$	0.9	V
Reverse Voltage 反向电压	V_Z	2.0-75	V
Thermal Resistance J-A 结到环境热阻	$R_{\theta JA}$	417	$^\circ\text{C}/\text{W}$
Junction and Storage Temperature 结温和储藏温度	T_J, T_{stg}	150 $^\circ\text{C}$, -55to+150 $^\circ\text{C}$	

ELECTRICAL CHARACTERISTICS	
SYMBOL	PARAMETER
V_Z	Reverse Zener voltage at I_{ZT}
I_{ZT}	Reverse current
Z_{ZT}	Maximum Zener impedance at I_{ZT}
I_{ZK}	Reverse current
Z_{ZK}	Maximum Zener impedance at I_{ZK}
I_R	Reverse leakage current at V_R
V_R	Reverse voltage
I_F	Forward current
V_F	Forward voltage at I_F
I_{ZM}	Maximum DC Zener current



■Electrical Characteristics 电特性

($T_A=25^\circ\text{C}$ unless otherwise noted 如无特殊说明, 温度为 25 $^\circ\text{C}$)



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Type Number	V _Z (V)@I _{ZT}			I _{ZT} (mA)	Z _{ZT} (Ω) @I _{ZT}	I _R (uA) @V _R	V _R (V)	Marking
	Nom.	Min.	Max.					
MM3Z2V0	2.0	1.8	2.15	5	100	120	0.5	B0
MM3Z2V2	2.2	2.08	2.33	5	100	120	0.7	C0
MM3Z2V4	2.4	2.28	2.56	5	100	120	1	1C
MM3Z2V7	2.7	2.5	2.9	5	110	120	1	1D
MM3Z3V0	3.0	2.8	3.2	5	120	50	1	1E
MM3Z3V3	3.3	3.1	3.5	5	130	20	1	1F
MM3Z3V6	3.6	3.4	3.8	5	130	10	1	1H
MM3Z3V9	3.9	3.7	4.1	5	130	5	1	1J
MM3Z4V3	4.3	4.0	4.6	5	130	5	1	1K
MM3Z4V7	4.7	4.4	5.0	5	130	2	1	1M
MM3Z5V1	5.1	4.8	5.4	5	130	2	1	1N
MM3Z5V6	5.6	5.2	6.0	5	80	1	2	1P
MM3Z6V2	6.2	5.8	6.6	5	50	1	3	1R
MM3Z6V8	6.8	6.4	7.2	5	30	0.5	4	1X
MM3Z7V5	7.5	7.0	7.9	5	30	0.5	5	1Y
MM3Z8V2	8.2	7.7	8.7	5	30	0.5	6	1Z
MM3Z9V1	9.1	8.5	9.6	5	30	0.5	7	2A
MM3Z10	10	9.4	10.6	5	30	0.1	7	2B
MM3Z11	11	10.4	11.6	5	30	0.1	8	2C
MM3Z12	12	11.4	12.7	5	35	0.1	9	2D
MM3Z13	13	12.4	14.1	5	35	0.1	10	2E
MM3Z15	15	13.8	16.2	5	40	0.1	11	2F
MM3Z16	16	15.3	17.1	5	40	0.1	12	2H
MM3Z18	18	16.8	19.1	5	45	0.1	13	2J
MM3Z20	20	18.8	21.2	5	50	0.1	15	2K
MM3Z22	22	20.8	23.3	5	55	0.1	17	2M
MM3Z24	24	22.8	25.6	5	60	0.1	18	2N
MM3Z27	27	25.1	28.9	2	70	0.1	21	2P
MM3Z30	30	28	32	2	80	0.1	23	2R
MM3Z33	33	31	35	2	80	0.1	25	2X
MM3Z36	36	34	38	2	90	0.1	27	2Y
MM3Z39	39	37	41	2	100	0.1	30	2Z
MM3Z43	43	40	46	2	130	0.1	32	3A
MM3Z47	47	44	50	2	150	0.1	35	3B
MM3Z51	51	48	54	2	180	0.1	38	3C
MM3Z56	56	52	60	2	200	0.1	42	3D
MM3Z62	62	58	66	2	215	0.1	47	3E
MM3Z68	68	64	72	2	240	0.1	52	3F
MM3Z75	75	70	79	2	265	0.1	56	3H

■ Typical Characteristic Curve 典型特性曲线

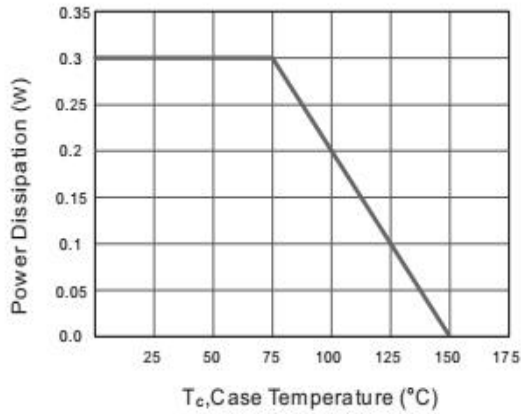


Figure 1: Power Derating Curve

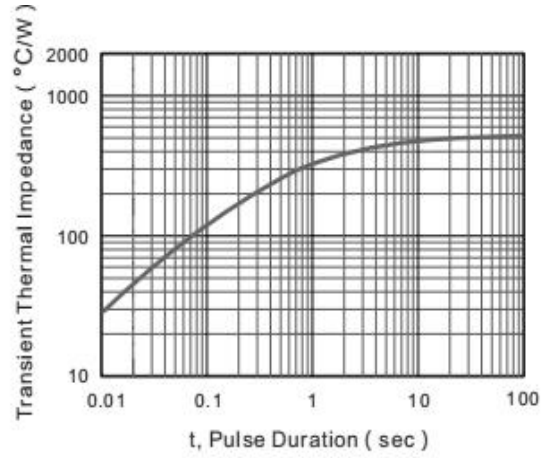
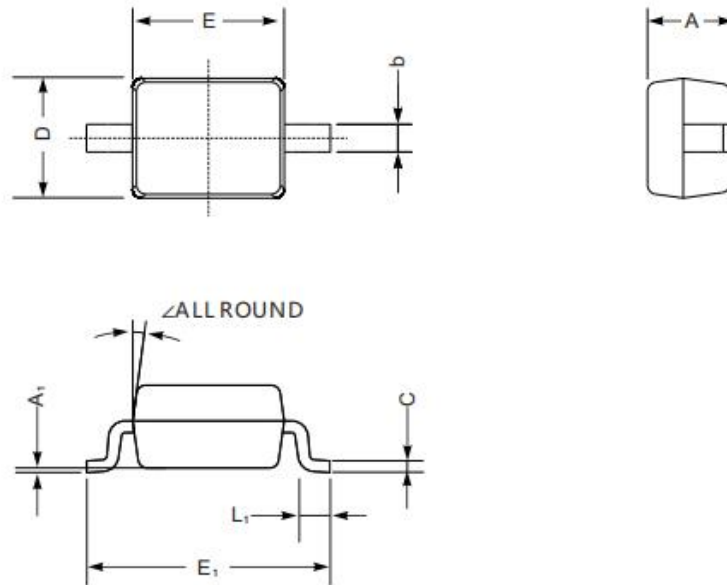


Figure 2: Zener Impedance Characteristics

■ Dimension 外形封装尺寸



UNIT		A	C	D	E	E ₁	b	L ₁	A ₁	∠
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2	9°
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—	
mil	max	43	5.9	55	70	108	16	16	8	
	min	32	3.1	47	63	100	9.8	7.9	—	