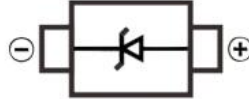


SOD-123 Surface Mounted Zener Diode 表面贴装稳压二极管

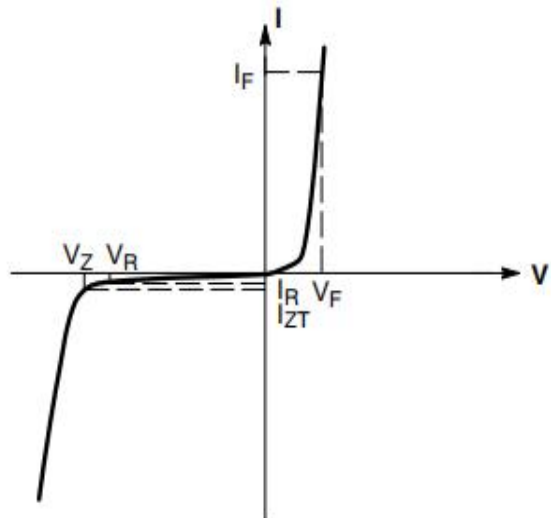
■SOD-123 Internal Configuration 内部结构



■Features 特点

Characteristic 特性参数	Symbol 符号	Max 最大值	Unit 单位
Power dissipation 耗散功率	$P_D(T_A=25^\circ\text{C})$	500	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	$R_{\theta JA}$	340	$^\circ\text{C}/\text{W}$
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 $^\circ\text{C}$ )

Type Number	V <sub>Z</sub> (V)@I <sub>ZT</sub>			I <sub>ZT</sub> (mA)	Z <sub>ZT</sub> (Ω) @I <sub>ZT</sub>	I <sub>R</sub> (μA) @V <sub>R</sub>	V <sub>R</sub> (V)	Marking
	Nom.	Min.	Max.					
MM1Z2V0-6AF	2.0	1.8	2.15	5	100	120	0.5	4A
MM1Z2V2-6AF	2.2	2.08	2.33	5	100	120	0.7	4B
MM1Z2V4-6AF	2.4	2.28	2.56	5	100	120	1	4C
MM1Z2V7-6AF	2.7	2.5	2.9	5	110	120	1	4D
MM1Z3V0-6AF	3.0	2.8	3.2	5	120	50	1	4E
MM1Z3V3-6AF	3.3	3.1	3.5	5	130	20	1	4F
MM1Z3V6-6AF	3.6	3.4	3.8	5	130	10	1	4H
MM1Z3V9-6AF	3.9	3.7	4.1	5	130	5	1	4J
MM1Z4V3-6AF	4.3	4.0	4.6	5	130	5	1	4K
MM1Z4V7-6AF	4.7	4.4	5.0	5	130	2	1	4M
MM1Z5V1-6AF	5.1	4.8	5.4	5	130	2	1	4N
MM1Z5V6-6AF	5.6	5.2	6.0	5	80	1	2	4P
MM1Z6V2-6AF	6.2	5.8	6.6	5	50	1	3	4R
MM1Z6V8-6AF	6.8	6.4	7.2	5	30	0.5	4	4X
MM1Z7V5-6AF	7.5	7.0	7.9	5	30	0.5	5	4Y
MM1Z8V2-6AF	8.2	7.7	8.7	5	30	0.5	6	4Z
MM1Z9V1-6AF	9.1	8.5	9.6	5	30	0.5	7	5A
MM1Z10-6AF	10	9.4	10.6	5	30	0.1	7	5B
MM1Z11-6AF	11	10.4	11.6	5	30	0.1	8	5C
MM1Z12-6AF	12	11.4	12.7	5	35	0.1	9	5D
MM1Z13-6AF	13	12.4	14.1	5	35	0.1	10	5E
MM1Z15-6AF	15	13.8	16.2	5	40	0.1	11	5F
MM1Z16-6AF	16	15.3	17.1	5	40	0.1	12	5H
MM1Z18-6AF	18	16.8	19.1	5	45	0.1	13	5J
MM1Z20-6AF	20	18.8	21.2	5	50	0.1	15	5K
MM1Z22-6AF	22	20.8	23.3	5	55	0.1	17	5M
MM1Z24-6AF	24	22.8	25.6	5	60	0.1	18	5N
MM1Z27-6AF	27	25.1	28.9	2	70	0.1	21	5P
MM1Z30-6AF	30	28	32	2	80	0.1	23	5R
MM1Z33-6AF	33	31	35	2	80	0.1	25	5X
MM1Z36-6AF	36	34	38	2	90	0.1	27	5Y
MM1Z39-6AF	39	37	41	2	100	0.1	30	5Z
MM1Z43-6AF	43	40	46	2	130	0.1	32	6A
MM1Z47-6AF	47	44	50	2	150	0.1	35	6B
MM1Z51-6AF	51	48	54	2	180	0.1	38	6C
MM1Z56-6AF	56	52	60	2	200	0.1	42	6D
MM1Z62-6AF	62	58	66	2	215	0.1	47	6E
MM1Z68-6AF	68	64	72	2	240	0.1	52	6F
MM1Z75-6AF	75	70	79	2	265	0.1	56	6H

■ Typical Characteristic Curve 典型特性曲线

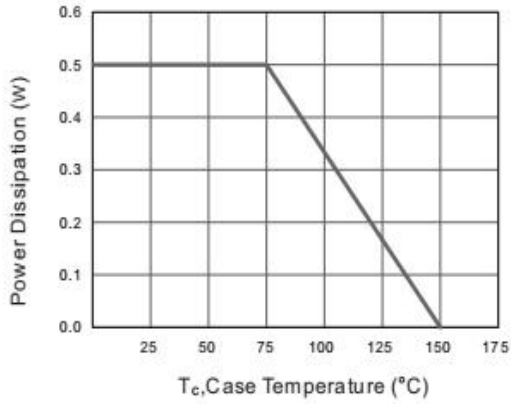


Figure 1: Power Derating Curve

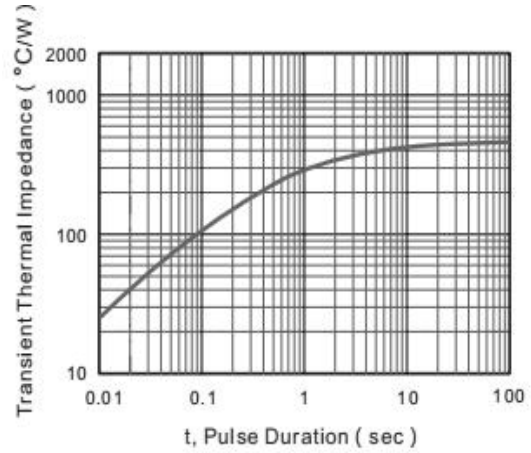
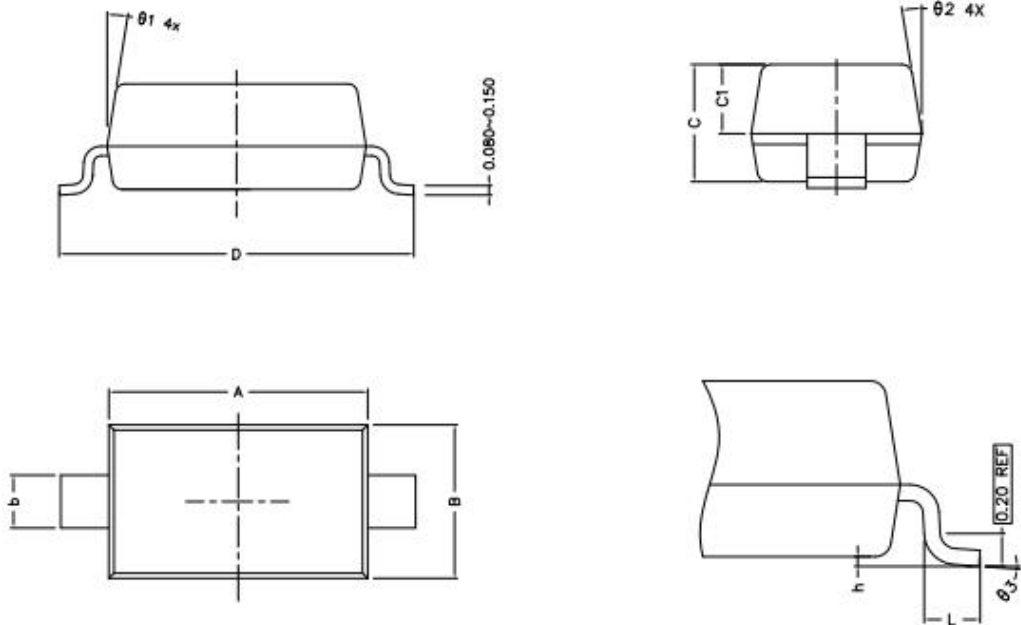


Figure 2: Zener Impedance Characteristics

■ Dimension  
外形封装尺寸



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	2.600	2.800	0.102	0.110
B	1.500	1.700	0.059	0.067
C	1.050	1.150	0.041	0.045
C1	0.600	0.700	0.024	0.028
D	3.550	3.850	0.140	0.152
L	0.250	0.450	0.010	0.018
b	0.450	0.650	0.018	0.026
h	0.020	0.120	0.001	0.005
∠ 3	0°	7°	0°	7°