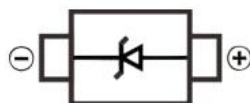


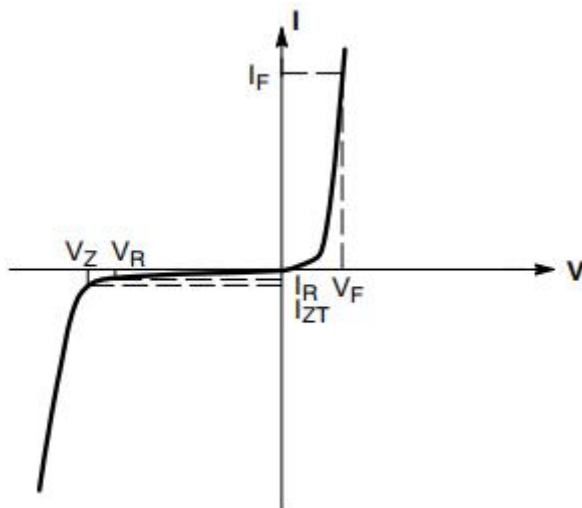
SOD-523 Surface Mounted Zener Diode 表面贴装稳压二极管

■SOD-523 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 ($T_a=25^\circ\text{C}$)	200	mW
Forward Current 正向电流	I_F	250	mA
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
Junction and Storage Temperature 结温和储藏温度	T_J, T_{stg}	150°C, -65to+150°C	



■ Electrical Characteristics 电特性

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

Type	$V_Z(\text{V})$		DIFFERENTIAL RESISTANCE $r_{dif}(\Omega)$				TEMP. COEFF. $S_Z(\text{mV/K})$			$I_R(\mu\text{A})$ @ $V_R(\text{V})$		Mark ing
	@ $I_Z=5\text{mA}$		@ $I_Z=1\text{mA}$		@ $I_Z=5\text{mA}$		@ $I_Z=5\text{mA}$			I_R	@ V	
	MIN.	MAX.	TYP.	MAX.	TYP.	MAX.	MIN.	TYP.	MAX.			
MM5Z2V0	1.8	2.15	325	600	80	100	-3.5	-2.1	0	120	0.5	RD
MM5Z2V2	2.08	2.33	325	600	80	100	-3.5	-2.1	0	120	0.7	RE
MM5Z2V4	2.2	2.6	325	600	80	100	-3.5	-2.1	0	50	1	Z7
MM5Z2V7	2.5	2.9	325	600	80	100	-3.5	-2.1	0	20	1	A8
MM5Z3V0	2.8	3.2	325	600	80	95	-3.5	-2.1	0	10	1	B8
MM5Z3V3	3.1	3.5	350	600	85	95	-3.5	-2.4	0	5	1	C8
MM5Z3V6	3.4	3.8	375	600	85	90	-3.5	-2.4	0	5	1	D8
MM5Z3V9	3.7	4.1	400	600	85	90	-3.5	-2.5	0	3	1	E8
MM5Z4V3	4.0	4.6	400	600	85	90	-3.5	-2.5	0	3	1	F8
MM5Z4V7	4.4	5.0	410	600	80	90	-3.5	-2.5	0	3	2	G8
MM5Z5V1	4.8	5.4	425	500	50	80	-3.5	-1.4	0.2	2	2	H8
MM5Z5V6	5.2	6.0	400	480	40	60	-2.7	-0.8	1.2	1	2	I8
MM5Z6V2	5.8	6.6	80	400	15	40	-2.0	1.2	2.5	3	4	J8
MM5Z6V8	6.4	7.2	40	150	6	10	0.4	2.3	3.7	2	4	K8
MM5Z7V5	7.0	7.9	30	80	6	15	1.2	3.0	4.5	1	5	L8
MM5Z8V2	7.7	8.7	30	80	6	15	2.5	4.0	5.3	0.7	5	M8
MM5Z9V1	8.5	9.6	40	80	6	15	3.2	4.6	6.2	0.5	6	N8
MM5Z10	9.4	10.6	40	100	6	15	3.8	5.5	7.0	0.2	7	O8
MM5Z11	10.4	11.6	50	150	8	20	4.5	6.4	8.0	0.1	8	P8
MM5Z12	11.4	12.7	50	150	10	20	5.4	7.4	9.0	0.1	8	Q8
MM5Z13	12.4	14.1	50	150	10	25	6.0	8.4	10.0	0.1	8	R8
MM5Z15	13.8	15.6	50	170	10	30	7.0	9.4	11.0	0.05	10.5	S8
	@ $I_Z=2\text{mA}$		@ $I_Z=0.5\text{mA}$		@ $I_Z=2\text{mA}$		@ $I_Z=2\text{mA}$					
MM5Z16	15.3	17.1	50	200	10	30	9.2	11.4	13.0	0.05	11.2	T8
MM5Z18	16.8	19.1	50	200	10	40	10.4	12.4	14.0	0.05	12.6	U8
MM5Z20	18.8	21.2	50	225	10	45	12.4	14.4	16.0	0.05	14	V8
MM5Z22	20.8	23.3	60	225	15	55	14.4	16.4	18.0	0.05	15.4	W8
MM5Z24	22.8	25.6	60	250	20	55	16.4	18.4	20.0	0.05	16.8	X8
MM5Z27	25.1	28.9	65	300	25	80	21.4	23.4	25.3	0.05	18.9	Y8
MM5Z30	28.0	32.0	70	300	30	80	24.4	26.6	29.4	0.05	21	Z8
MM5Z33	31.0	35.0	75	325	35	80	27.4	29.7	33.4	0.05	23.1	A9
MM5Z36	34.0	38.0	80	350	35	90	30.4	33.0	37.4	0.05	25.2	B9
MM5Z39	37.0	41.0	80	350	40	130	33.4	36.4	41.2	0.05	27.3	C9
MM5Z43	40.0	46.0	85	375	45	150	37.6	41.2	46.6	0.05	30.1	D9
MM5Z47	44.0	50.0	85	375	50	170	42.0	46.1	51.8	0.05	32.9	E9
MM5Z51	48.0	54.0	95	400	60	180	46.6	51.3	57.2	0.05	35.7	F9
MM5Z56	52.0	60.0	110	425	75	200	52.2	58.4	63.8	0.05	39.2	G9
MM5Z62	58.0	66.0	130	450	90	215	58.8	63.9	71.6	0.05	43.4	H9
MM5Z68	64.0	72.0	160	475	110	240	65.6	72.2	79.8	0.05	47.6	I9
MM5Z75	70.0	79.0	200	500	150	255	73.4	81.1	88.6	0.05	52.5	J9

■ Typical Characteristic Curve 典型特性曲线

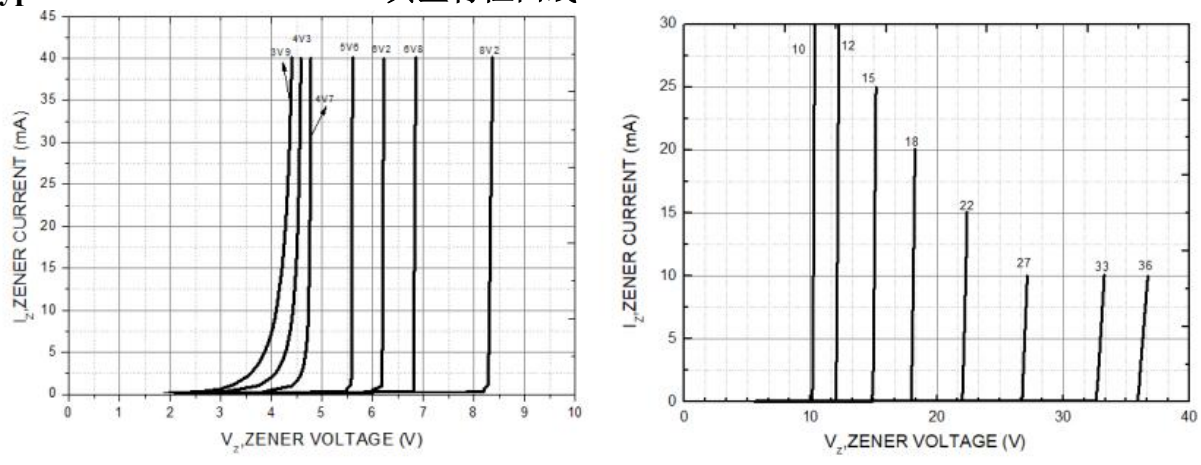


Figure 1: Zener Characteristics

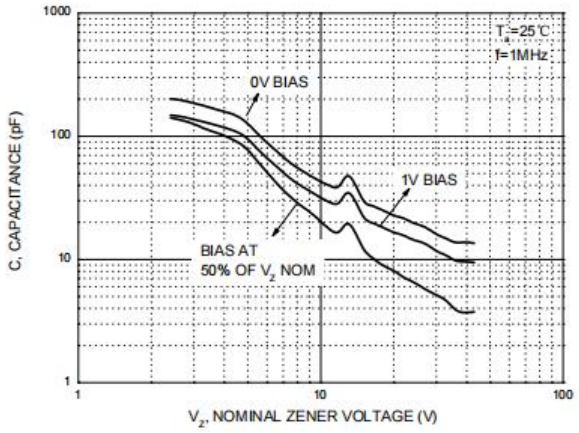


Figure 2: Capacitance Characteristics

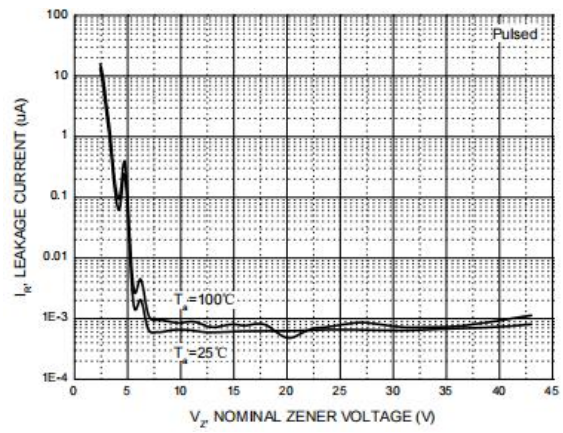


Figure 3: Leakage Current

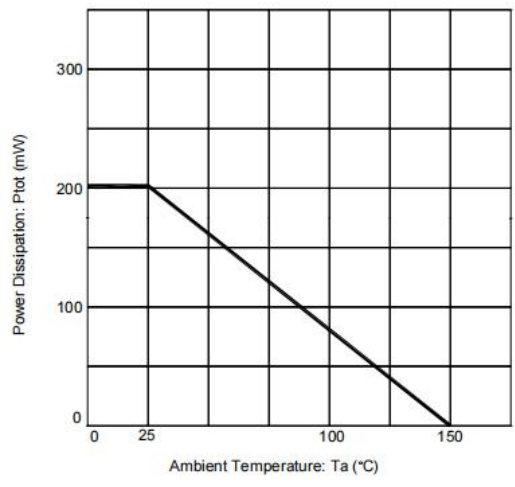
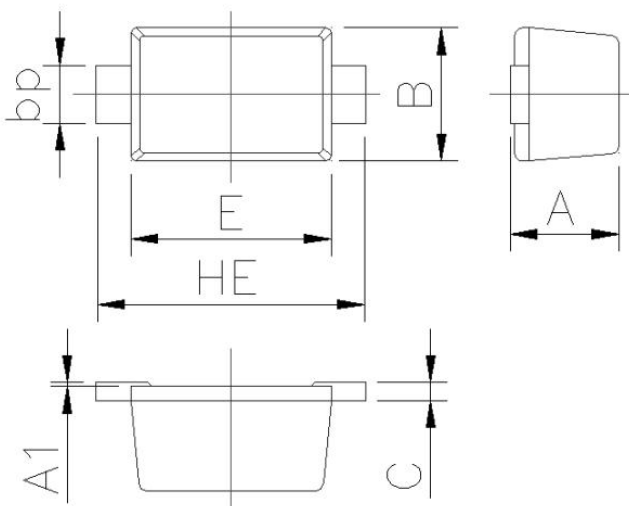


Figure 4: Derating Curve

■Dimension 外形封装尺寸



Symbol	Dimension in Millimeters	
	Min	Max
A	0.60	0.70
A1	0	0.05
B	0.75	0.85
bp	0.25	0.40
C	0.09	0.15
E	1.15	1.25
HE	1.50	1.70