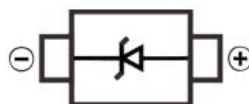


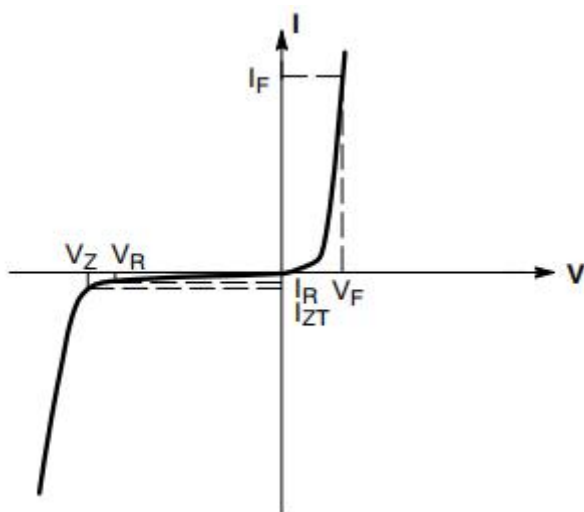
SOD-523 Surface Mounted Zener Diode 表面贴装稳压二极管

■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	2.4-75	V
Junction and Storage Temperature 结温和储藏温度	T_J, T_{stg}	125°C, -55to+125°C	



■ Electrical Characteristics 电特性

(TA=25°C unless otherwise noted 如无特殊说明, 温度为 25°C)

Type	V _Z (V)		DIFFERENTIAL RESISTANCE r _{diff} (Ω)				TEMP. COEFF. S _Z (mV/K)			I _R (uA)		Mark ing
	@I _Z =5mA		@I _Z =1mA		@I _Z =5mA		@I _Z =5mA			@V _R (V)		
	MIN.	MAX.	TYP.	MAX.	TYP.	MAX.	MIN.	TYP.	MAX.	I _R	@V _R	
BZX584B2V4	2.35	2.45	325	600	80	100	-3.5	-2.1	0	50	1	2V1
BZX584B2V7	2.64	2.76	325	600	80	100	-3.5	-2.1	0	20	1	2V2
BZX584B3V0	2.94	3.06	325	600	80	95	-3.5	-2.1	0	10	1	2V3
BZX584B3V3	3.23	3.37	350	600	85	95	-3.5	-2.4	0	5	1	2V4
BZX584B3V6	3.52	3.68	375	600	85	90	-3.5	-2.4	0	5	1	2V5
BZX584B3V9	3.82	3.98	400	600	85	90	-3.5	-2.5	0	3	1	2V6
BZX584B4V3	4.21	4.39	400	600	85	90	-3.5	-2.5	0	3	1	2V7
BZX584B4V7	4.6	4.8	410	600	80	90	-3.5	-2.5	0	3	2	2Z1
BZX584B5V1	4.99	5.2	425	500	50	80	-3.5	-1.4	0.2	2	2	2Z2
BZX584B5V6	5.49	5.71	400	480	40	60	-2.7	-0.8	1.2	1	2	2Z3
BZX584B6V2	6.07	6.32	80	400	15	40	-2.0	1.2	2.5	3	4	2Z3
BZX584B6V8	6.66	6.94	40	150	6	10	0.4	2.3	3.7	2	4	2Z4
BZX584B7V5	7.35	7.65	30	80	6	15	1.2	3.0	4.5	1	5	2Z5
BZX584B8V2	8.04	8.36	30	80	6	15	2.5	4.0	5.3	0.7	5	2Z6
BZX584B9V1	8.92	9.28	40	80	6	15	3.2	4.6	6.2	0.5	6	2Z7
BZX584B10	9.8	10.2	40	100	6	15	3.8	5.5	7.0	0.2	7	2Z8
BZX584B11	10.8	11.2	50	150	8	20	4.5	6.4	8.0	0.1	8	2Z9
BZX584B12	11.8	12.2	50	150	10	20	5.4	7.4	9.0	0.1	8	2Y1
BZX584B13	12.7	13.3	50	150	10	25	6.0	8.4	10.0	0.1	8	2T2
BZX584B15	14.7	15.3	50	170	10	30	7.0	9.4	11.0	0.05	10.5	2Y4
BZX584B16	15.7	16.3	50	200	10	30	9.2	11.4	13.0	0.05	11.2	2Y5
BZX584B18	17.6	18.4	50	200	10	40	10.4	12.4	14.0	0.05	12.6	2Y6
BZX584B20	19.6	20.4	50	225	10	45	12.4	14.4	16.0	0.05	14	2Y7
BZX584B22	21.6	22.5	60	225	15	55	14.4	16.4	18.0	0.05	15.4	2Y8
BZX584B24	23.5	24.5	60	250	20	55	16.4	18.4	20.0	0.05	16.8	2Y9
	@I _Z =2mA		@I _Z =0.5mA		@I _Z =2mA		@I _Z =2mA					
BZX584B27	26.4	27.6	65	300	25	80	21.4	23.4	25.3	0.05	18.9	2X1
BZX584B30	29.4	30.6	70	300	30	80	24.4	26.6	29.4	0.05	21	2X2
BZX584B33	32.3	33.7	75	325	35	80	27.4	29.7	33.4	0.05	23.1	2X3
BZX584B36	35.2	36.8	80	350	35	90	30.4	33.0	37.4	0.05	25.2	2X4
BZX584B39	38.2	39.8	80	350	40	130	33.4	36.4	41.2	0.05	27.3	2X5
BZX584B43	42.1	43.9	85	375	45	150	37.6	41.2	46.6	0.05	30.1	Y5
BZX584B47	46.0	48.0	85	375	50	170	42.0	46.1	51.8	0.05	32.9	Z5
BZX584B51	49.9	52.1	95	400	60	180	46.6	51.3	57.2	0.05	35.7	-5
BZX584B56	54.8	57.2	110	425	75	200	52.2	58.4	63.8	0.05	39.2	X2
BZX584B62	60.7	63.3	130	450	90	215	58.8	63.9	71.6	0.05	43.4	X3
BZX584B68	66.6	69.4	160	475	110	240	65.6	72.2	79.8	0.05	47.6	X4
BZX584B75	73.5	76.5	200	500	150	255	73.4	81.1	88.6	0.05	52.5	X5

■ Typical Characteristic Curve 典型特性曲线

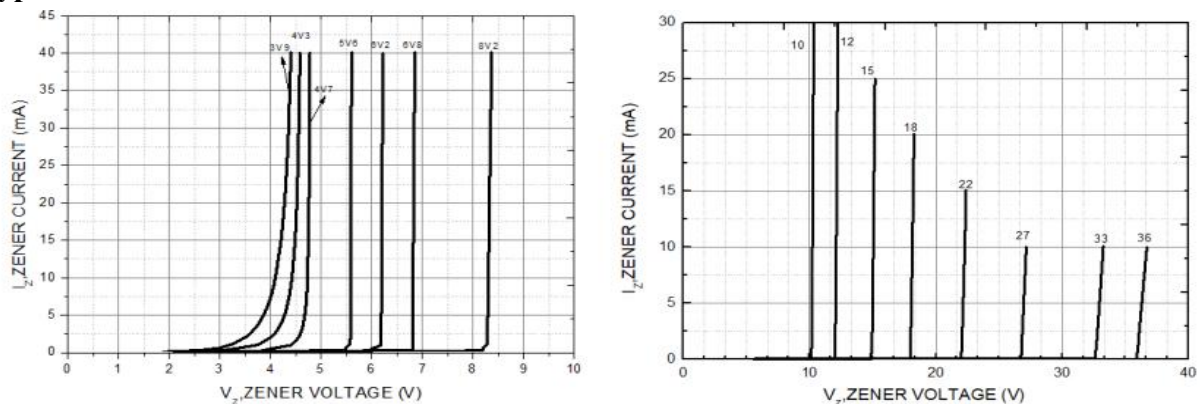


Figure 1: Zener Characteristics

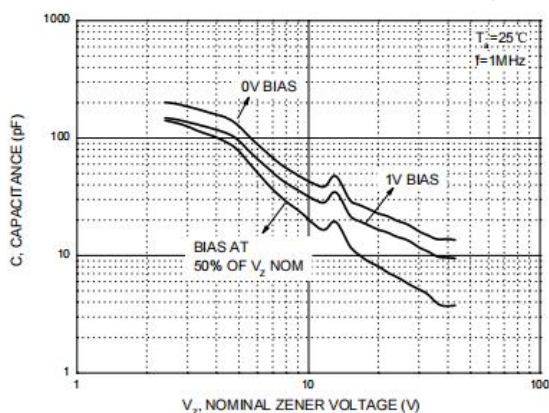


Figure 2: Capacitance Characteristics

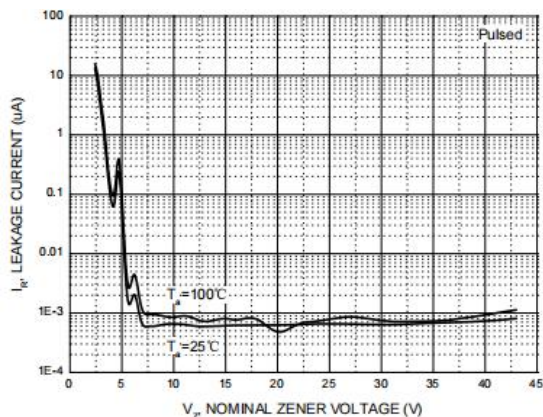


Figure 3: Leakage Current

■ Dimension 外形封装尺寸

