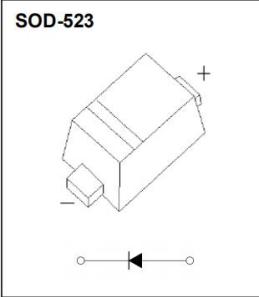


SOD-523 贴片塑封二极管

SOD-523 Plastic-Encapsulate Diodes

**MARKING: 5****特征 Features**

- 小型表贴封装 Small Surface Mounting Type
- 低反向漏电和正向压降 Low Reverse Current and Low Forward Voltage
- 高可靠性 High Reliability

机械数据 Mechanical Data

- 封装: SOD-523 封装 SOD-523 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

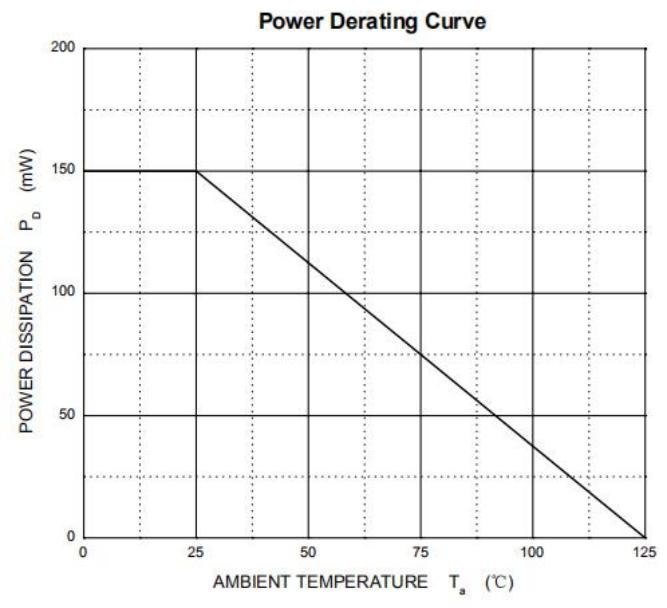
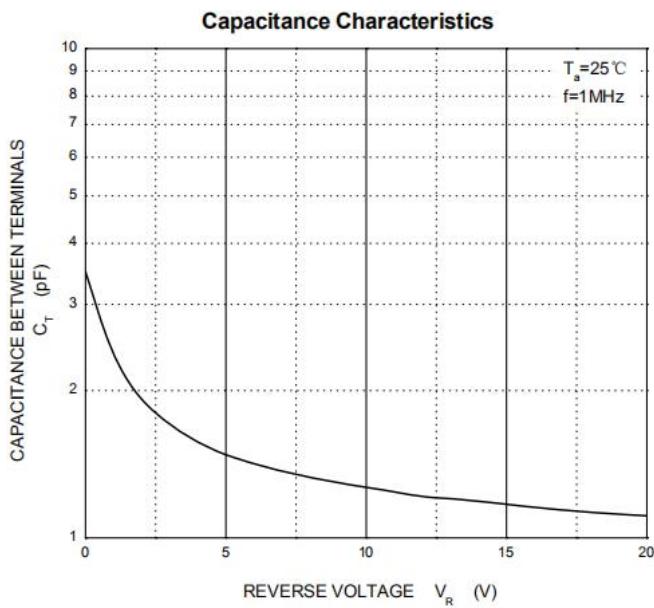
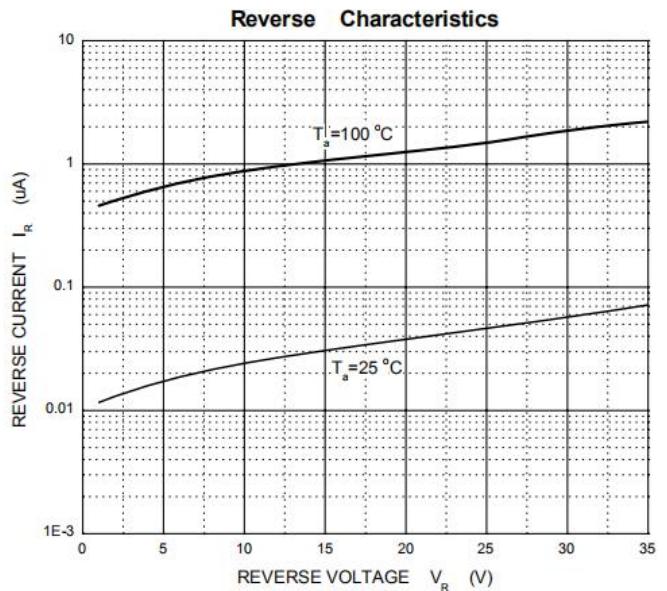
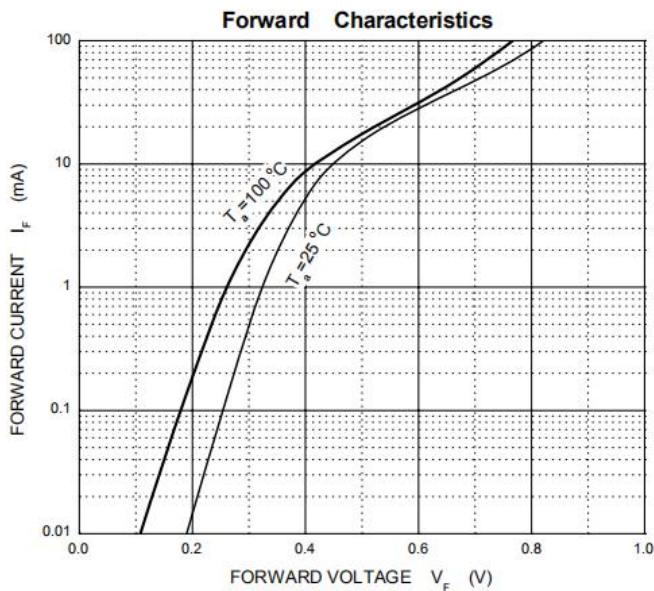
极限值和温度特性($TA = 25^{\circ}\text{C}$ 除非另有规定)**Maximum Ratings & Thermal Characteristics** (Ratings at 25°C ambient temperature unless otherwise specified.)

参数 Parameters	符号 Symbol	数值 Value	单位 Unit
峰值反向电压 Peak Reverse Voltage	V_{RM}	45	V
直流反向电压 DC Reverse Voltage	V_R	40	V
平均整流电流 Mean Rectifying Current	I_o	30	mA
尖峰正向不重复浪涌电流 Non-repetitive Peak Forward Surge Current@ $t= 8.3\text{ms}$	I_{FSM}	200	mA
功率消耗 Power Dissipation	P_d	150	mW
结温 Junction temperature	T_j	125	°C
存储温度 Storage temperature range	T_{STG}	-55~+150	°C
热阻 Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	667	°C/W

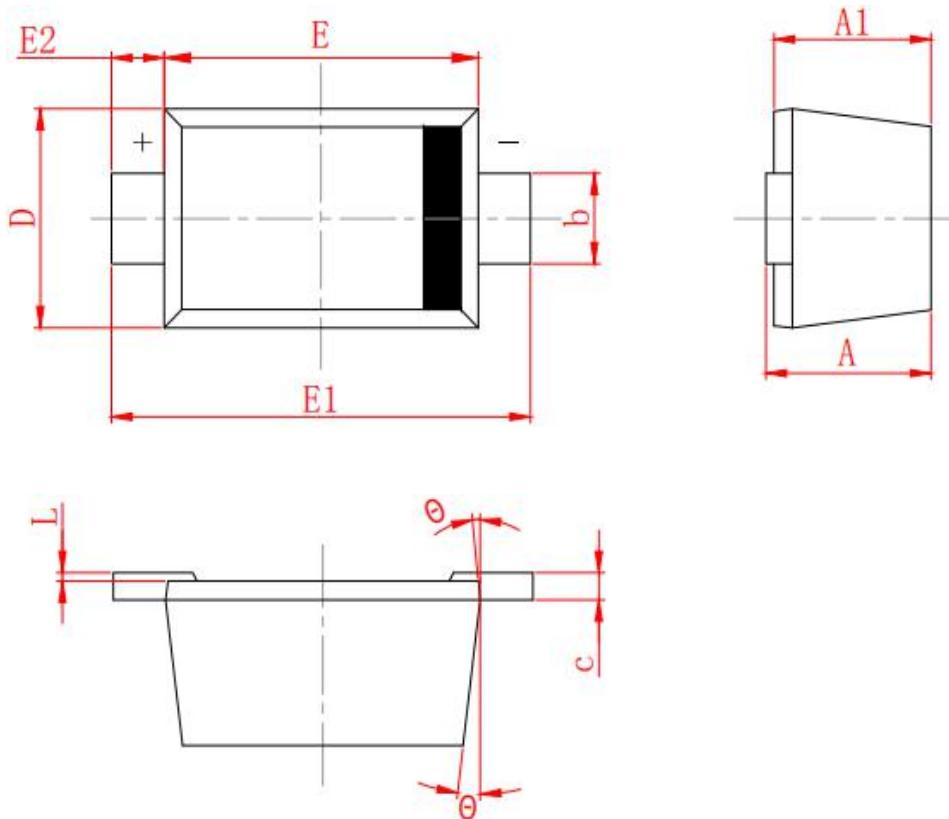
电特性 Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified).

符号 Symbols	参数 Parameter	测试条件 Test Condition	界限 Limits		单位 Unit
			Min	Max	
$V_{(BR)}$	反向电压 Reverse Voltage	$I_R=1\text{mA}$	40	---	V
V_F	正向电压 Forward Voltage	$I_F=1\text{mA}$	0.2	0.37	V
I_R	反向漏电流 Reverse Current	$V_R=30\text{V}$	0.01	0.5	uA
C_T	端子间电容 Capacitance Between Terminals	$V_R=1\text{V}, f=1\text{MHz}$	0.5	10	pF

典型特性 Typical Characteristics

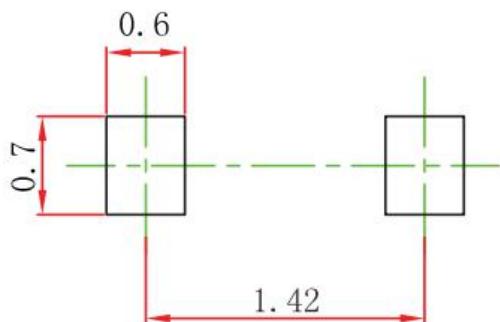


SOD-523封装外形尺寸图 SOD-523 Package Outline Dimensions



SYMBOL	MILLIMETER	
	MIN	MAX
A	0.530	0.730
A1	0.500	0.700
b	0.280	0.380
c	0.080	0.150
D	0.750	0.850
E	1.100	1.300
E1	1.500	1.700
E2	0.200	REF
L	0.010	0.070
θ	7°	REF

SOD-523焊盘设计参考 SOD-523 Suggested Pad Layout



Note:

1. Controlling dimension:in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.