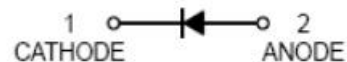


SOD-323 Switching Diode 开关二极管

■ Features 特点

- Fast Switching Speed 快的开关速度
- Surface mount device 表面贴装器件
- High Conductance 高电导率
- Case 封装:SOD-323
- Marking 印字: T4



■ Maximum Rating 最大额定值

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

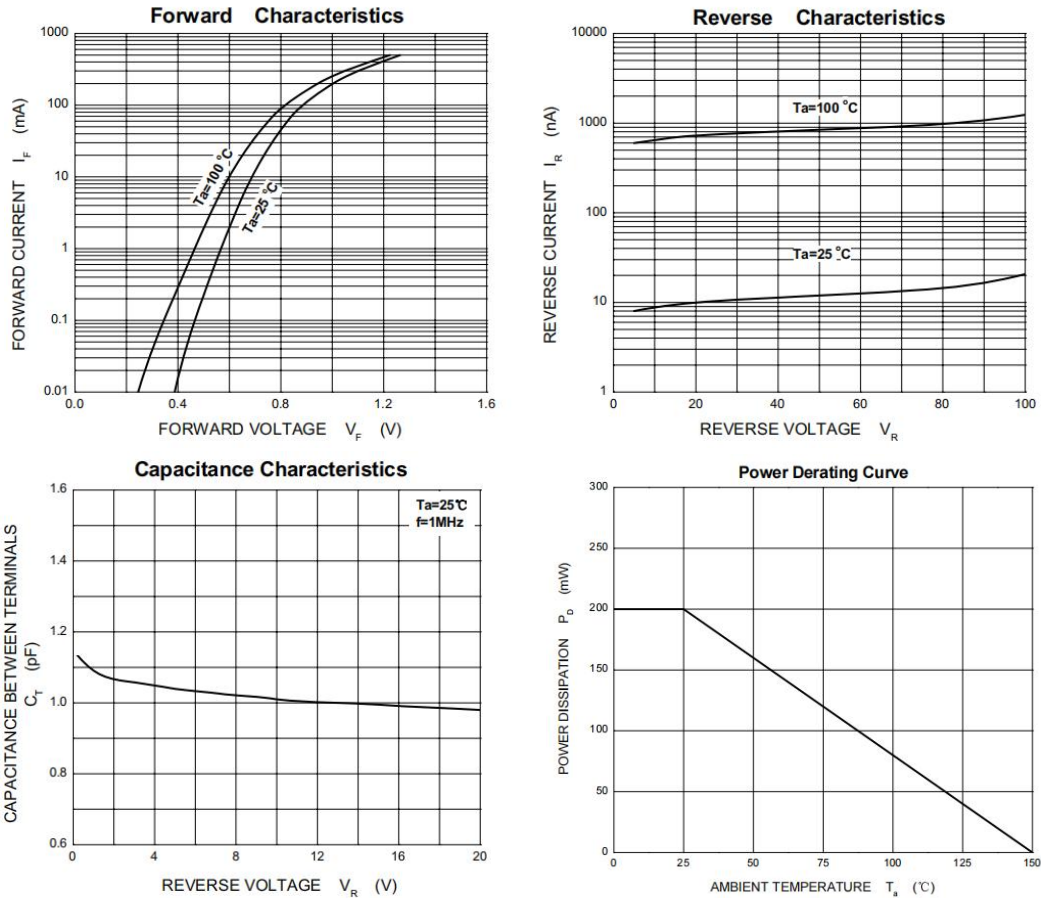
Characteristic 特性参数	Symbol 符号	Rating 额定值	Unit 单位
DC Reverse Voltage 直流反向电压	V_R	100	V
Peak Repetitive Reverse Voltage 峰值重复反向电压	V_{RRM}	100	V
RMS Reverse Voltage 反向电压均方根值	$V_{R(RMS)}$	70	V
Forward Rectified Output Current 正向工作电流	I_O	150	mA
Non-Repetitive Peak Surge Current@ $t=1\mu\text{s}$ 不重复峰值浪涌电流@ $t=1\text{s}$	I_{FSM}	2 1	A
Power Dissipation 耗散功率	P_D	200	mW
Thermal Resistance Junction-Ambient 结到环境热阻	$R_{\theta JA}$	625	$^{\circ}\text{C}/\text{W}$
Junction/Storage Temperature 结温/储藏温度	T_J, T_{stg}	-50to+150 $^{\circ}\text{C}$	$^{\circ}\text{C}$

■ 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)

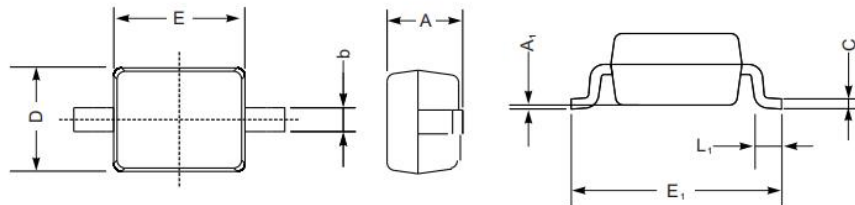
Characteristic 特性参数	Symbol 符号	Min 最小值	Max 最大值	Unit 单位	Condition 条件
Reverse Voltage 反向电压	V_R	100		V	$I_R=1\mu\text{A}$
Forward Voltage 正向电压	V_F		0.85 1.0 1.25	V	$I_F=10\text{mA}$ $I_F=50\text{mA}$ $I_F=150\text{mA}$
Reverse Current 反向电流	I_R		1	μA	$V_R=100\text{V}$
Revers Recovery Time 反向恢复时间	T_{rr}		4	nS	$I_{rr} = 0.1 * I_R,$ $I_F = I_R = 10 \text{ mA},$ $R_{\theta JA} = 625^{\circ}\text{C}/\text{W}$
Junction Capacitance 结电容	C_J		1.15	pF	$V_R=4\text{V},$ $f=1\text{MHz}$

■ Typical Characteristic Curve 典型特性曲线



■ Dimension 外形封装尺寸

SOD323



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
	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	—