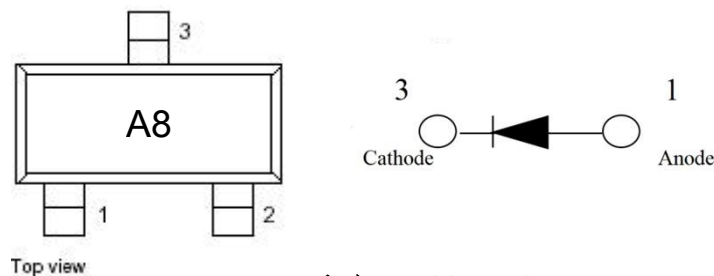


一、Features 产品特性

MAXIMUM RATINGS($T_a=25^\circ\text{C}$) 最大额定值

CHARACTERISTIC 特性参数	Symbol 符号	Rating 额定值	Unit 单位
Continuous Reverse Voltage 连续反向电压	V_R	75	Vdc
Peak Reverse Voltage 反向峰值电压	V_{RM}	100	Vdc
Peak Forward Current 正向峰值电流	I_F	200	mAdc
Peak Forward Surge Current 正向最大浪涌电流	$I_{FM(surge)}$	500	mAdc

THERMAL CHARACTERISTICS 热特性

CHARACTERISTIC 特性参数	Symbol 符号	Max 最大值	Unit 单位
Total Device Dissipation FR-5 Board(1) $T_A=25^\circ\text{C}$	P_D	225	mW
Total Device Dissipation Alumina Substrate,(2) $T_A=25^\circ\text{C}$ 总耗散功率 氧化铝衬底	P_D	300	mW
Junction and Storage Temperature 结温和储存温度	T_J , T_{stg}	150, -55 ~150	$^\circ\text{C}$

- FR-5=1.0×0.75×0.062in, printed-circuit board.
- Alumina=0.4×0.3×0.024in, 99.5%alumina

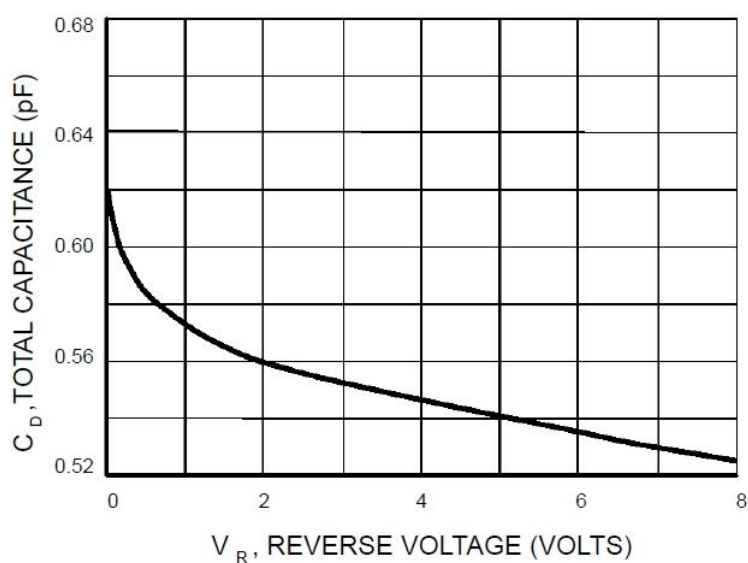
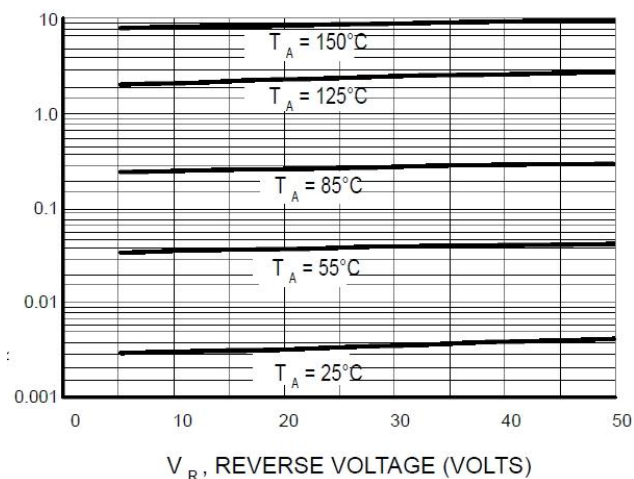
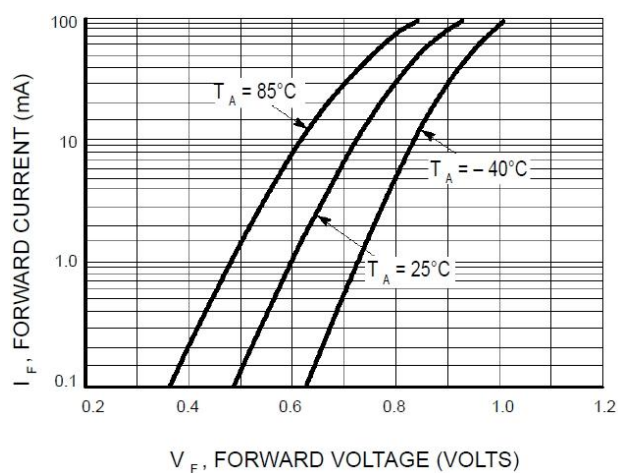
ELECTRICAL CHARACTERISTICS 电特性

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

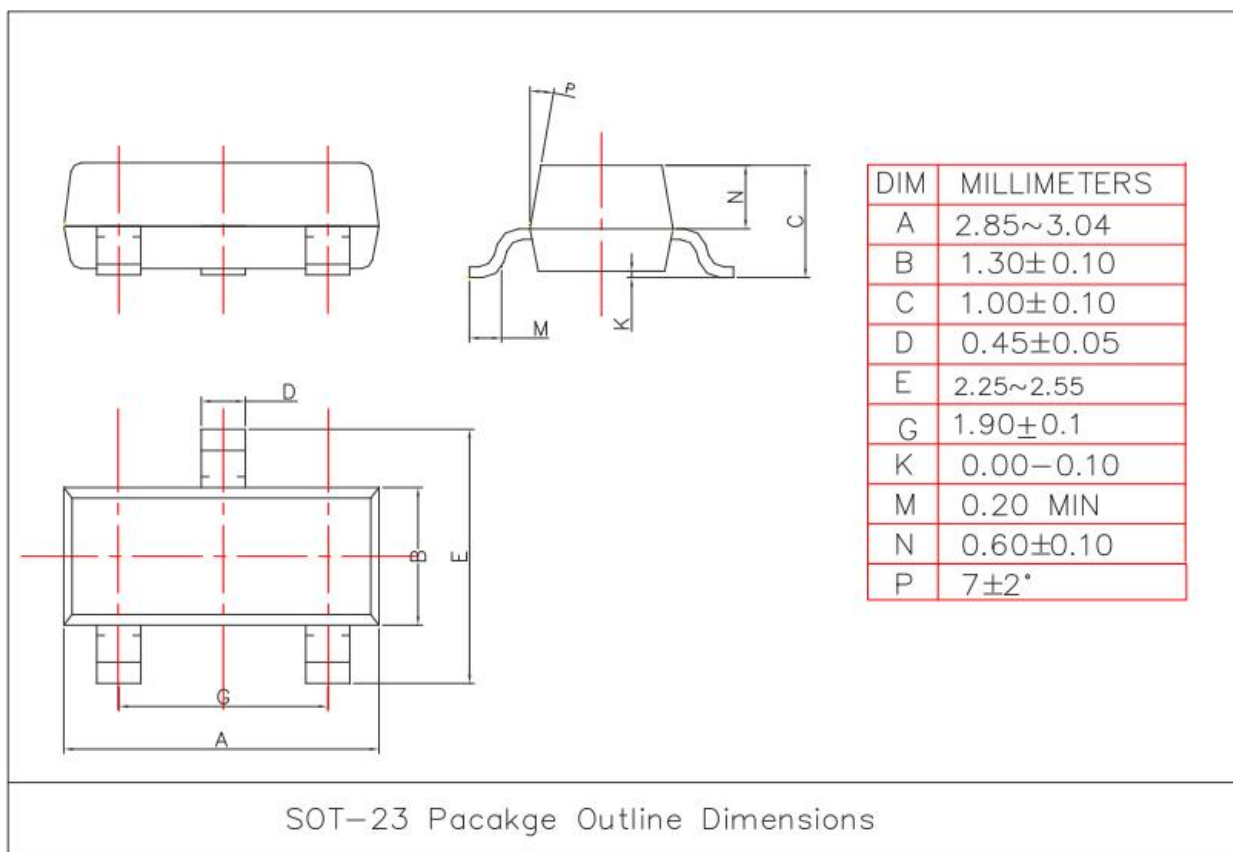
Characteristic 特性参数	Symbol 符号	Test Condition 测试条件	Min 最小值	Type 典型值	Max 最大值	Unit 单位
Reverse Voltage Leakage Current 反向漏电流	I_R	$V_R=75\text{Vdc}$	—	—	1.0	μA
		$V_R=75\text{Vdc}, T_J=150^\circ\text{C}$	—	—	50	
		$V_R=25\text{Vdc}, T_J=150^\circ\text{C}$	—	—	30	
Reverse Breakdown Voltage 反向击穿电压	$V_{(BR)}$	$I_{BR}=100\mu\text{Adc}$	100	—	—	Vdc
Forward Voltage 正向电压	V_F	$I_F=1\text{mAdc}$	—	—	715	mV
		$I_F=10\text{mAdc}$	—	—	855	
		$I_F=50\text{mAdc}$	—	—	1000	

		$I_F=150\text{mA}_{dc}$	—	—	1250	
Diode Capacitance 电容	C_D	$V_R=0, f=1.0\text{MHz}$	—	—	2.0	pF
Forward Recovery Voltage 正向恢复电压	V_{FR}	$I_F=10\text{mA}_{dc}, t_r=20\text{ns}$	—	—	1.75	Vdc
Reverse Recovery Time 反向恢复时间	t_{rr}	$V_R=6\text{V}, I_F=10\text{mA},$ $R_L=100\Omega, i_{rr}=0.1I_R$	—	—	4.0	nS

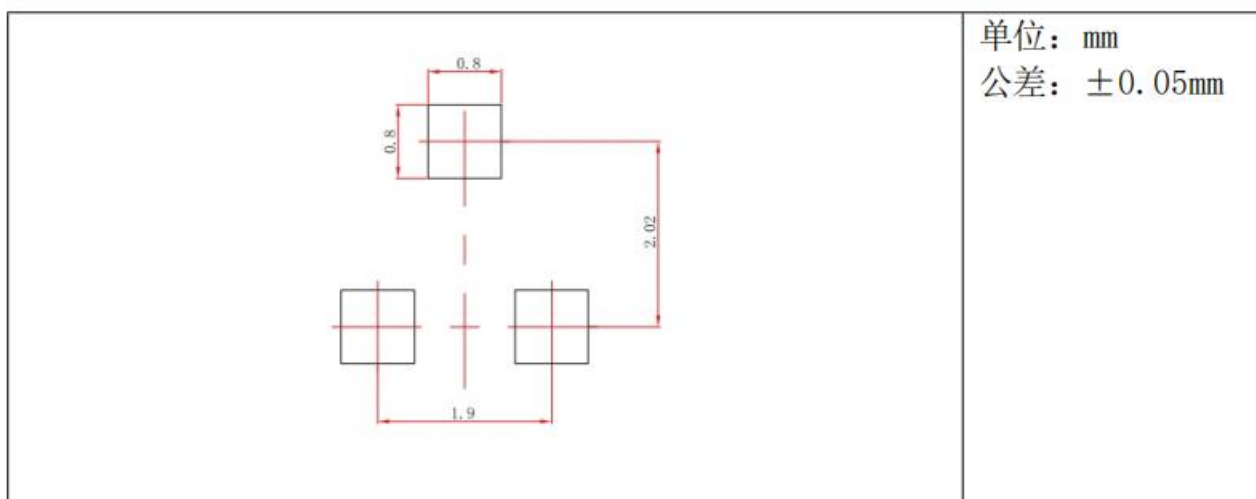
Typical Performance Characteristics



二、SOT-23 外形尺寸 (SOT-23 DIMENSION)

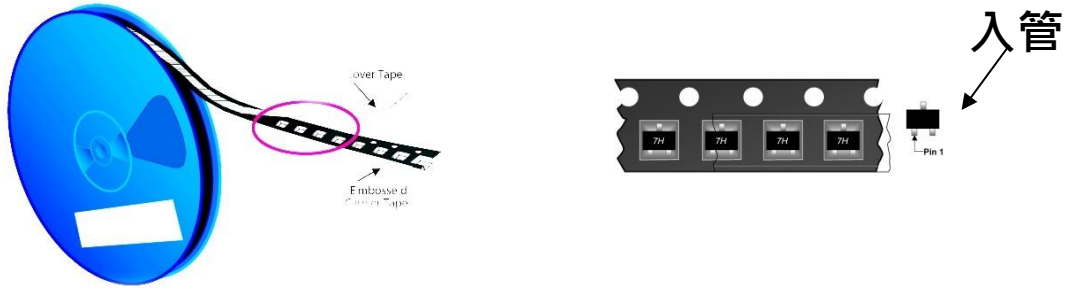


三、焊盘尺寸设计 SOT-23 Suggested Layout

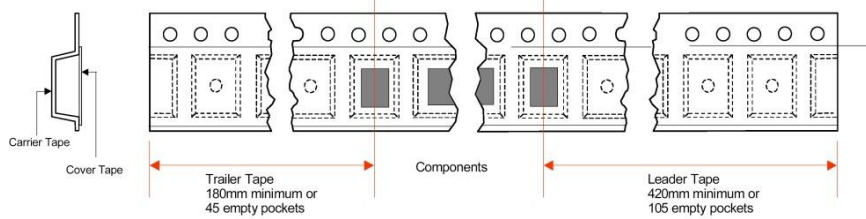


四、包装方式 Packings

封装形式	卷盘尺寸	只/卷	内盒尺寸	卷盘/内盒	只/内盒	外箱尺寸	内盒/外箱	只/外箱
SOT-23	7"	3000	190X190X135mm	10	30000	430 X 400 X 215mm	6	180K
			203X203X195mm	15	45000	440 X 440 X 230mm	4	180K



SOT-23 产品编带、包装图



SOT-23 带尾、带头空封数

