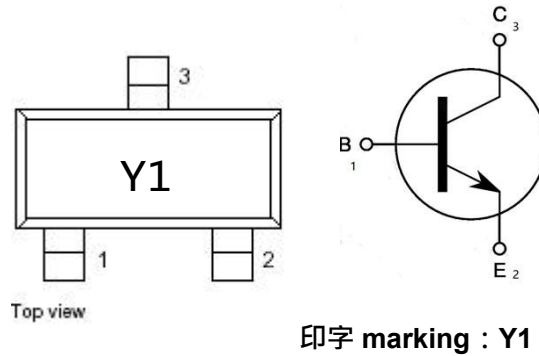


**一、Features 产品特性**

**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
Collector-Emitter Voltage 集电极-发射极电压	$V_{CEO}$	25	Vdc
Collector-Base Voltage 集电极-基极电压	$V_{CBO}$	40	Vdc
Emitter-Base Voltage 发射极-基极电压	$V_{EBO}$	5.0	Vdc
Collector Current—Continuous 集电极电流-连续	$I_C$	500	mAdc

**THERMAL CHARACTERISTICS 热特性**

CHARACTERISTIC 特性参数	Symbol 符号	Max 最大值	Unit 单位
Collector Power Dissipation 集电极耗散功率	$P_c$	300	mW
Junction and Storage Temperature 结温和储存温度	$T_j$ , $T_{stg}$	150, -55 ~150	$^\circ\text{C}$

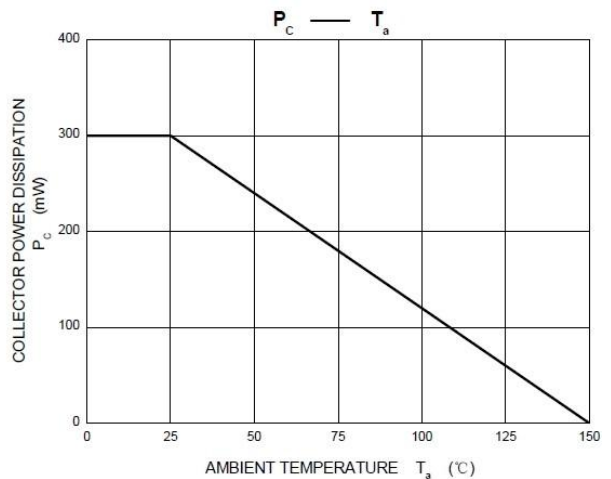
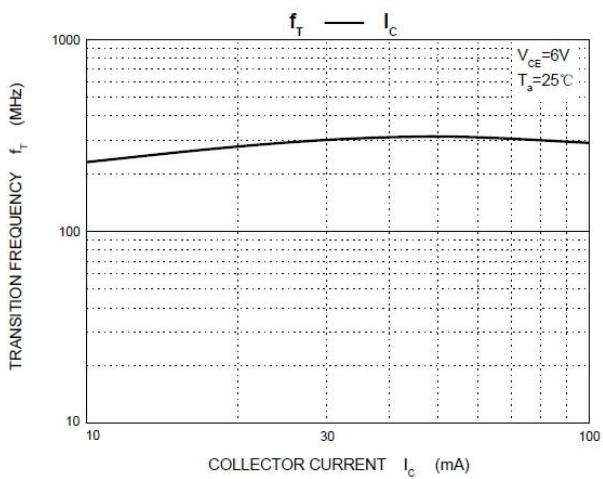
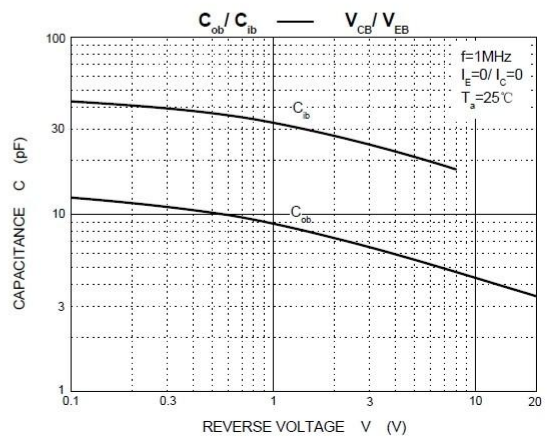
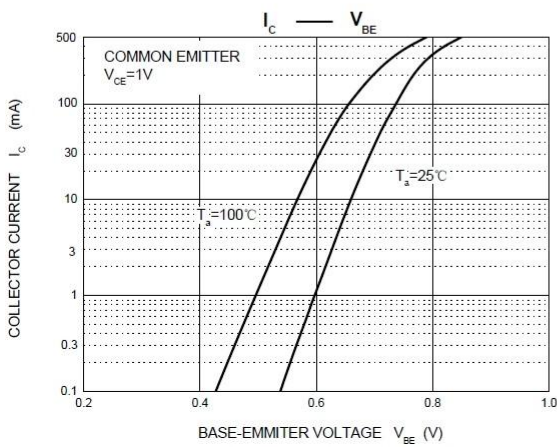
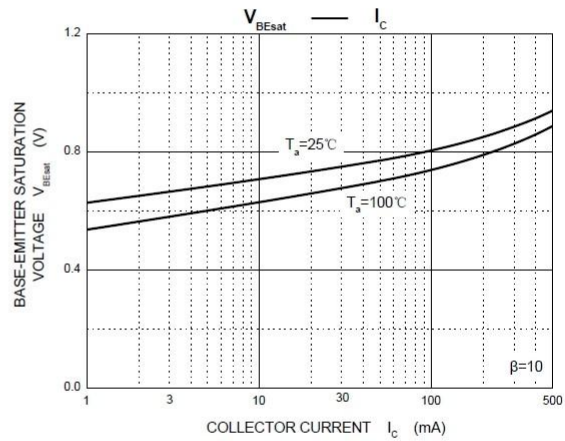
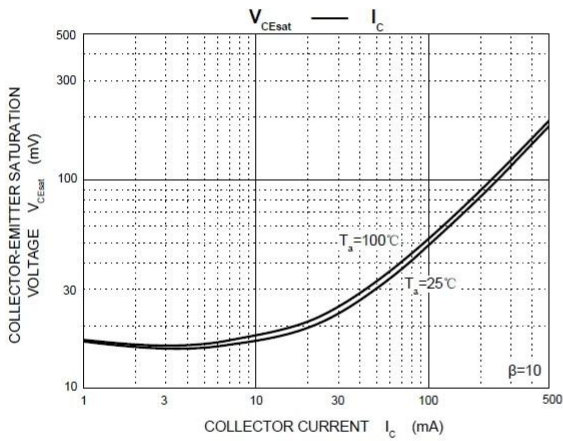
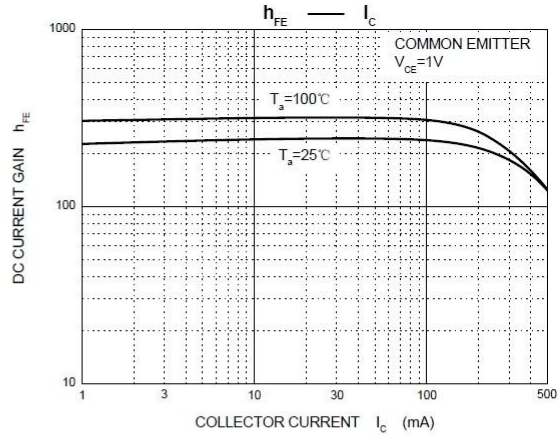
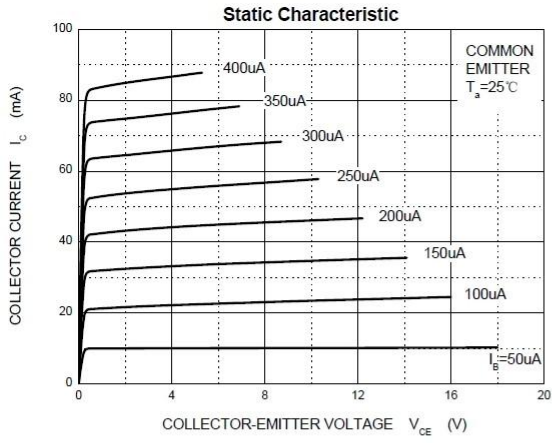
**ELECTRICAL CHARACTERISTICS 电特性**

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

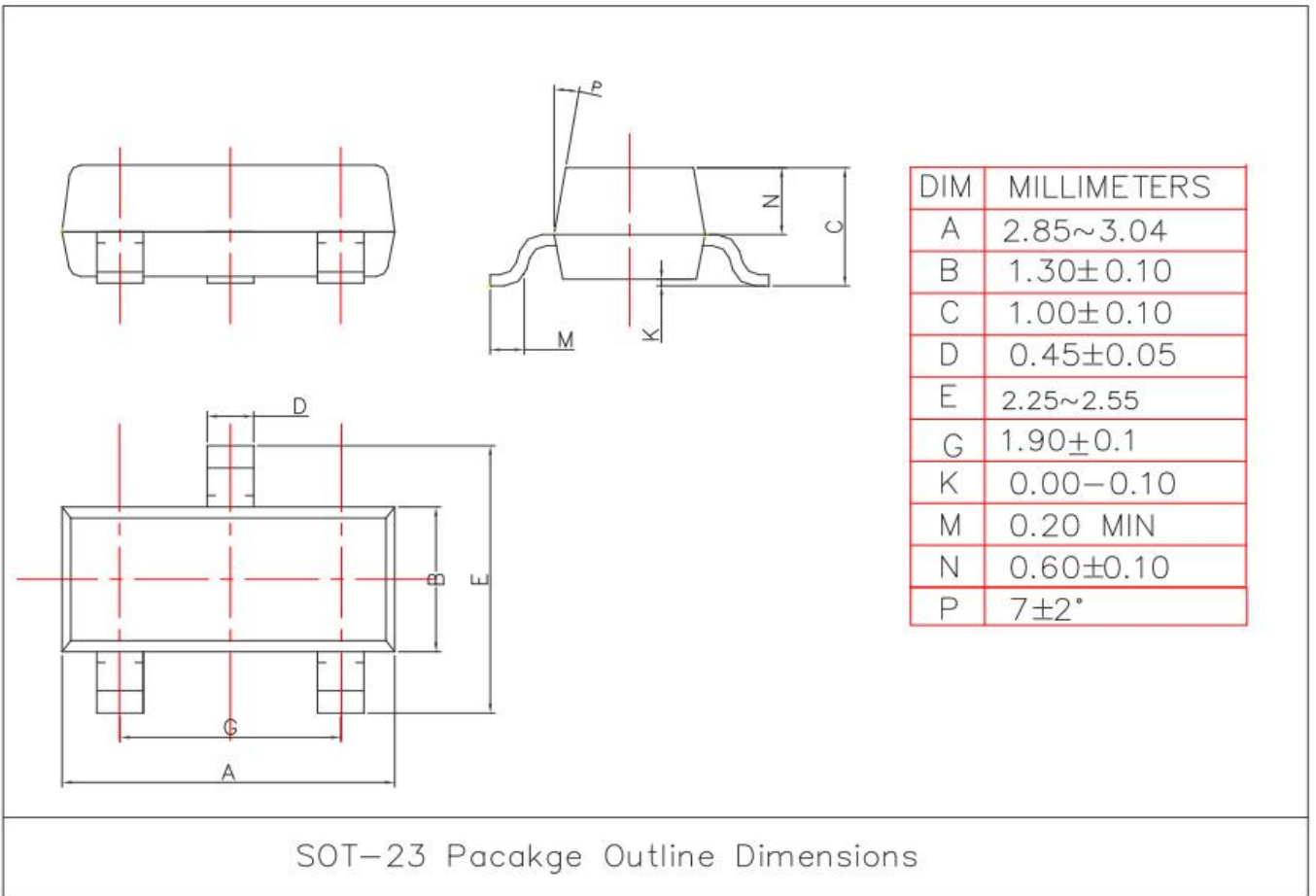
Characteristic 特性参数	Symbol 符号	Test Condition 测试条件	Min 最小值	Type 典型值	Max 最大值	Unit 单位
Collector Cutoff Current 集电极截止电流	$I_{CBO}$	$V_{CB}=30\text{V}, I_E=0$	—	—	0.1	$\mu\text{A}$
Collector- Emitter Cutoff Current 集电极-发射极截止电流	$I_{CEO}$	$V_{CB}=20\text{V}, I_E=0$	—	—	0.1	$\mu\text{A}$
Emitter Cutoff Current 发射极截止电流	$I_{EBO}$	$V_{EB}=5\text{V}, I_C=0$	—	—	0.1	$\mu\text{A}$

Collector-Emitter Breakdown Voltage 集电极-发射极击穿电压	$V_{(BR)CEO}$	$I_C=1mA$	25	—	—	V
Collector- Base Breakdown Voltage 集电极-基极击穿电压	$V_{(BR)CBO}$	$I_C=100\mu A$	40	—	—	V
Emitter-Base Breakdown Voltage 发射极-基极击穿电压	$V_{(BR)EBO}$	$I_E=100\mu A$	5	—	—	V
DC Current Gain 直流电流增益	$h_{FE(1)}$	$V_{CE}=1V, I_C=100mA$	200	—	350	—
	$h_{FE(2)}$	$V_{CE}=1V, I_C=0.5A$	40	—	—	
Collector-Emitter Saturation Voltage 集电极-发射极饱和压降	$V_{CE(sat)}$	$I_C=500mA, I_B=50mA$	—	—	0.6	V
Base Emitter Voltage 基极发射极电压	$V_{BE}$	$V_{CE}=1V, I_C=10mA$	100	0.8	1.2	V
Transition Frequency 特征频率	$f_T$	$V_{CE}=5V, I_C=10mA$	—	120	—	MHz
Collector Output Capacitance 输出电容	$V_{ob}$	$V_{CB}=10V, I_E=0,$ $f=1MHz$	—	13	30	pF

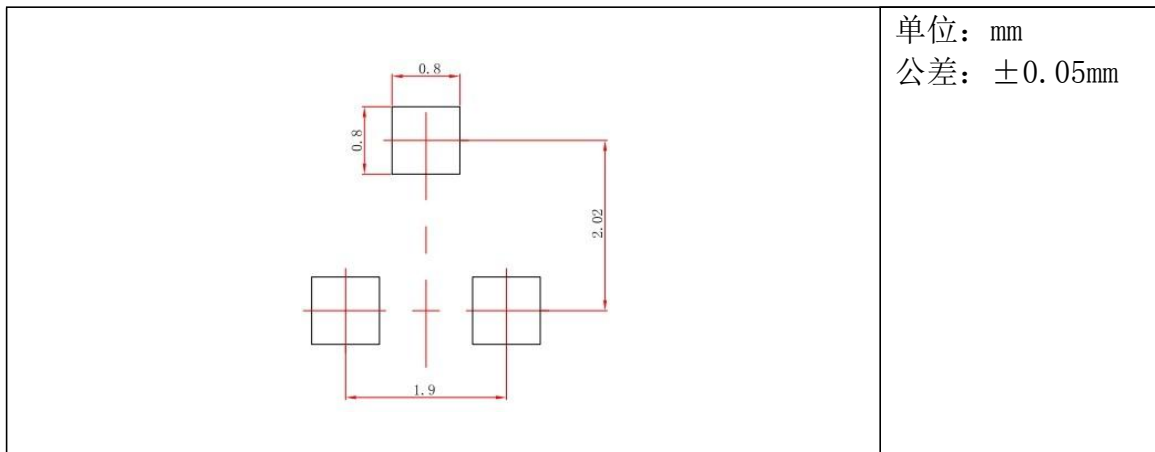
Typical Performance Characteristics



二、SOT-23 外形尺寸 (SOT-23 DIMENSION)

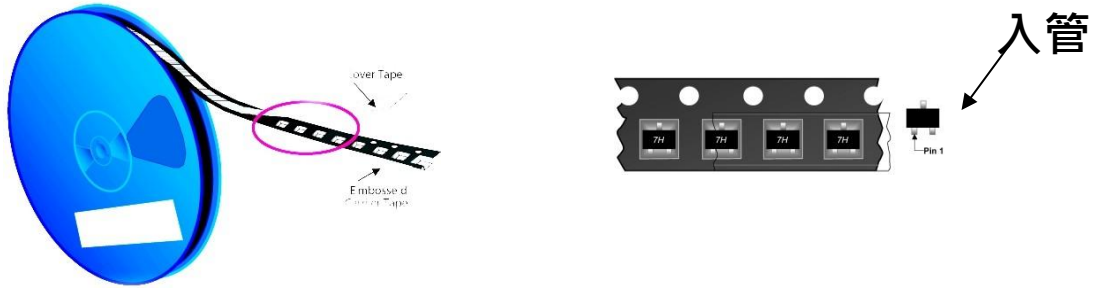


三、焊盘尺寸设计 SOT-23 Suggested Layout

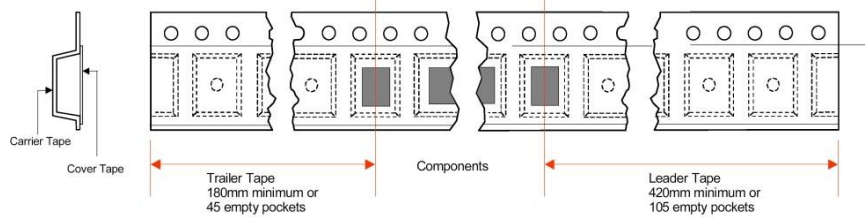


四、包装方式 Packings

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

