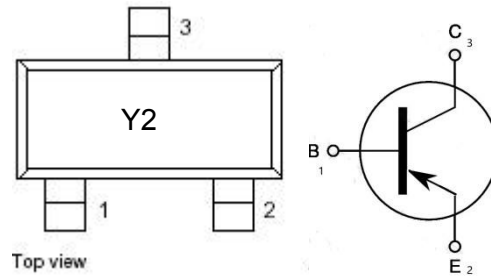


**一、Features 产品特性**


印字 marking: Y2

**MAXIMUM RATINGS(T<sub>a</sub>=25℃) 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 <sub>CEO</sub>	-25	Vdc
Collector-Base Voltage 集电极-基极电压	V <sub>CBO</sub>	-40	Vdc
Emitter-Base Voltage 发射极-基极电压	V <sub>EBO</sub>	-5.0	Vdc
Collector Current—Continuous 集电极电流-连续	I <sub>C</sub>	-1500	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 <sub>c</sub>	300	mW
Junction and Storage Temperature 结温和储存温度	T <sub>j</sub> , T <sub>stg</sub>	150, -55 ~150	℃

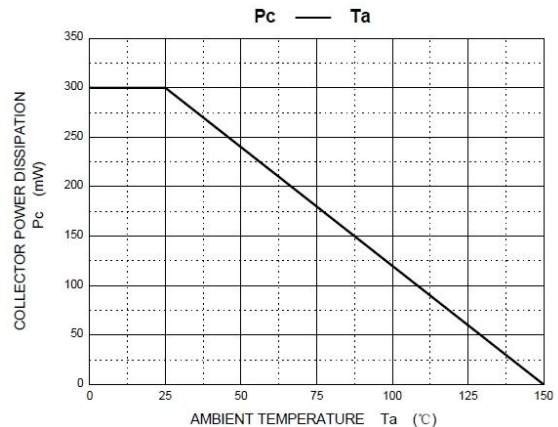
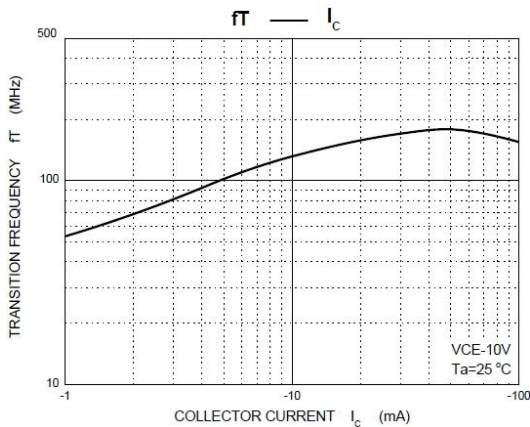
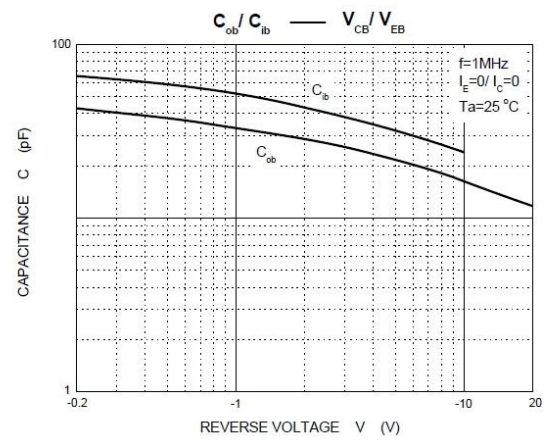
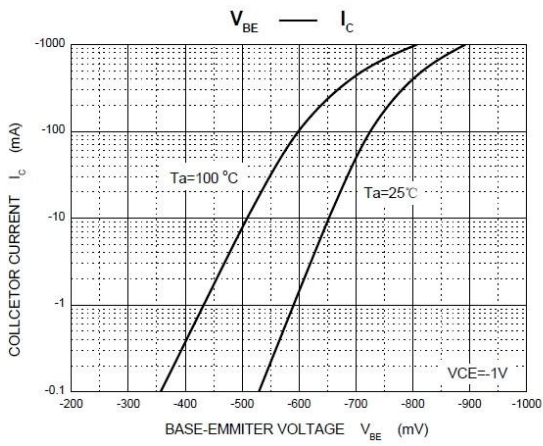
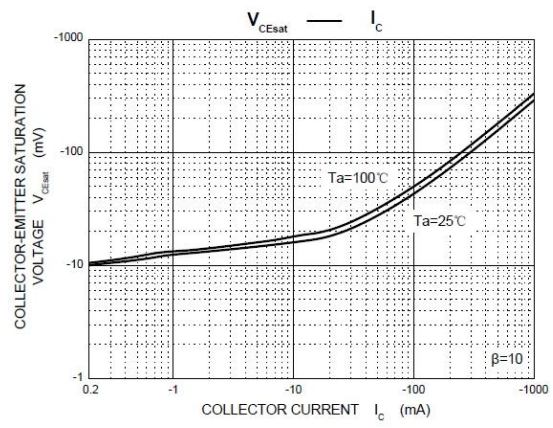
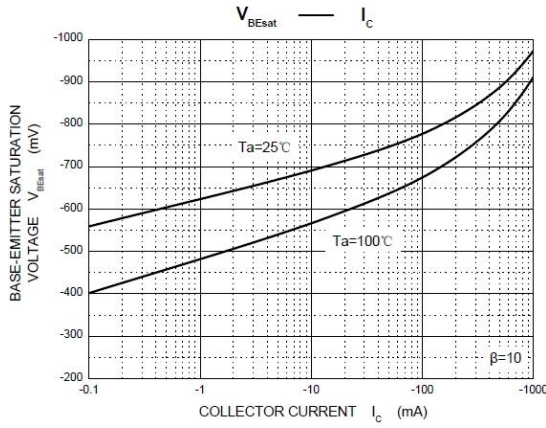
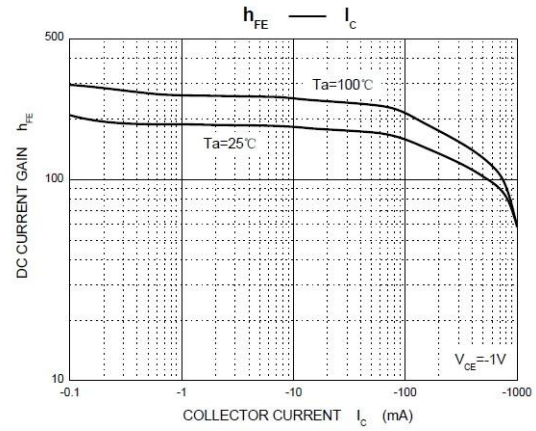
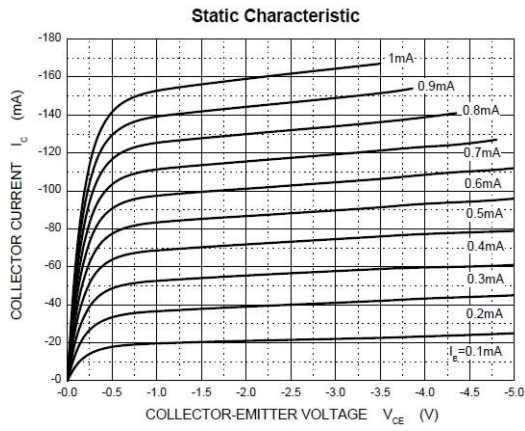
**ELECTRICAL CHARACTERISTICS 电特性**

 (T<sub>A</sub>=25℃ unless otherwise noted 如无特殊说明, 温度为 25℃)

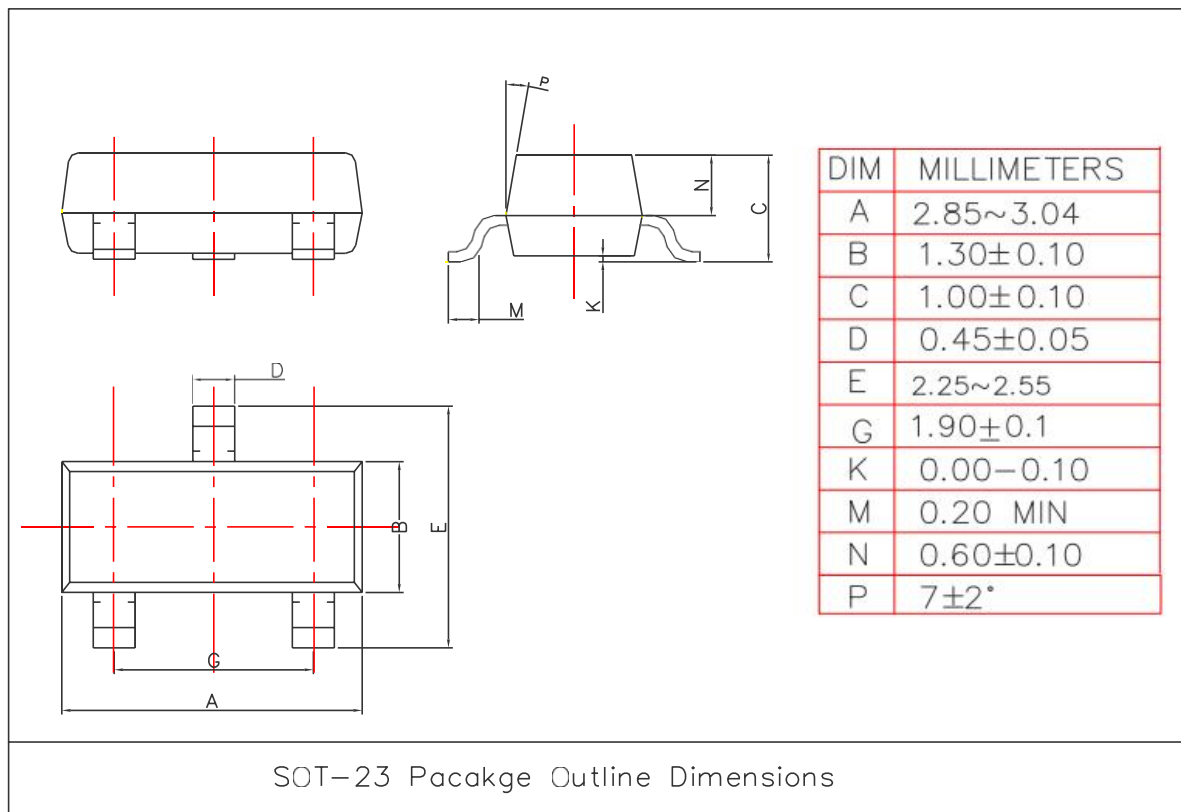
Characteristic 特性参数	Symbol 符号	Test Condition 测试条件	Min 最小值	Type 典型值	Max 最大值	Unit 单位
Collector Cutoff Current 集电极截止电流	I <sub>CBO</sub>	V <sub>CB</sub> =-30V, I <sub>E</sub> =0	—	—	-0.1	μA
Collector- Emitter Cutoff Current 集电极-发射极截止电流	I <sub>CEO</sub>	V <sub>CB</sub> =-20V, I <sub>E</sub> =0	—	—	-0.1	μA
Emitter Cutoff Current 发射极截止电流	I <sub>EBO</sub>	V <sub>EB</sub> =-5V, I <sub>C</sub> =0	—	—	-0.1	μA
Collector-Emitter Breakdown Voltage 集电极-发射极击穿电压	V <sub>(BR)CEO</sub>	I <sub>C</sub> =-10mA	-25	—	—	V
Collector- Base Breakdown Voltage 集电极-基极击穿电压	V <sub>(BR)CBO</sub>	I <sub>C</sub> =-100μA	-40	—	—	V
Emitter-Base Breakdown Voltage 发射极-基极击穿电压	V <sub>(BR)EBO</sub>	I <sub>E</sub> =-100μA	-5	—	—	V
DC Current Gain 直流电流增益	h <sub>FE(1)</sub>	V <sub>CE</sub> =-1V, I <sub>C</sub> =-100mA	200	—	350	—
	h <sub>FE(2)</sub>	V <sub>CE</sub> =-1V, I <sub>C</sub> =-1.2A	40	—	—	
Collector-Emitter Saturation Voltage 集电极-发射极饱和压降	V <sub>CE(sat)</sub>	I <sub>C</sub> =-1.2A, I <sub>B</sub> =-120mA	—	—	-0.6	V
Base Emitter Voltage 基极发射极电压	V <sub>BE</sub>	V <sub>CE</sub> =-1V, I <sub>C</sub> =-10mA	-100	-0.8	-1.2	V
Transition Frequency 特征频率	f <sub>T</sub>	V <sub>CE</sub> =-5V, I <sub>C</sub> =-10mA	—	120	—	MHz

Collector Output Capacitance 输出电容	$V_{ob}$	$V_{CB}=-10V, I_E=0,$ $f=1MHz$	—	13	30	pF
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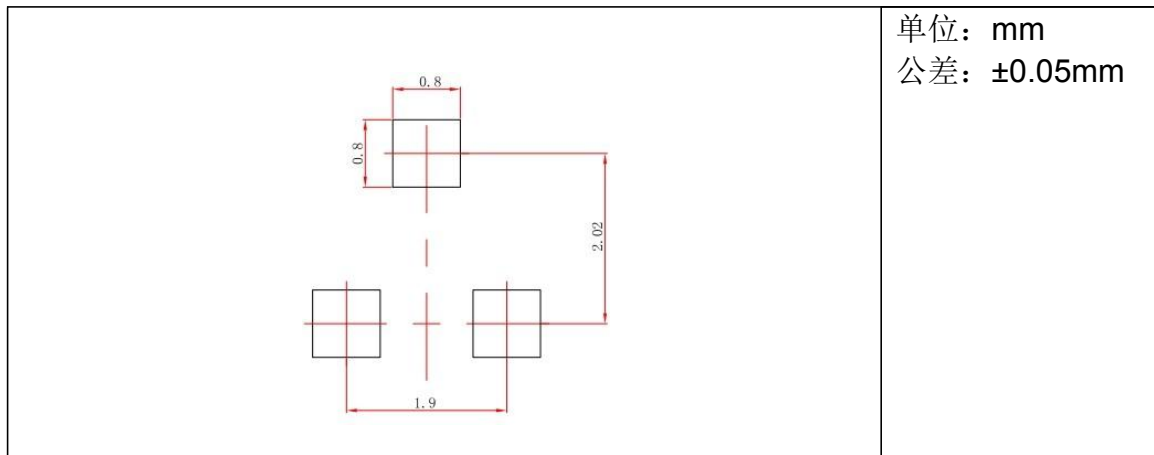
Typical Performance Characteristics



二、SOT-23 外形尺寸 (SOT-23 DIMENSION)

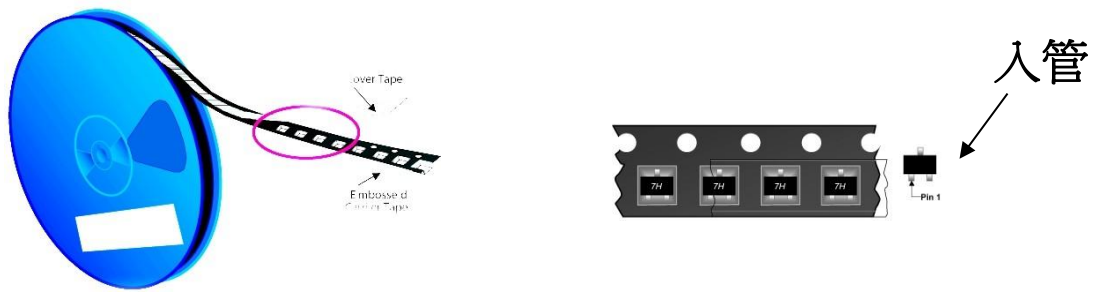


### 三、焊盘尺寸设计 SOT-23 Suggested Layout

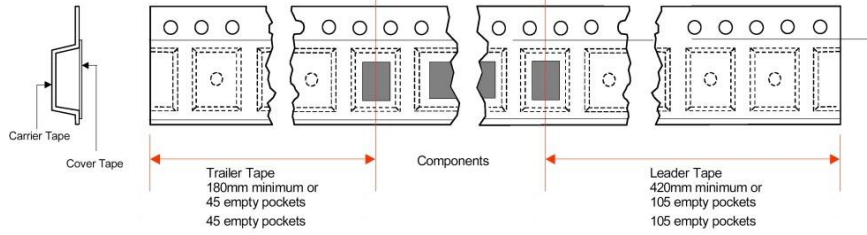


### 四、包装方式 Packings

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

