

描述 / Descriptions

SOT-23 塑封封装 PNP 半导体三极管。Silicon PNP transistor in a SOT-23 Plastic Package.

特征 / Features

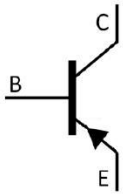
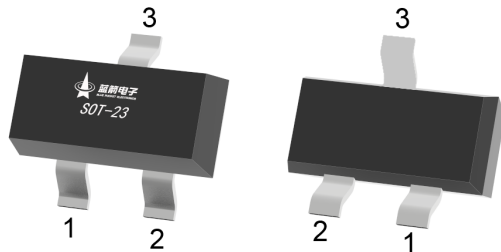
饱和压降低，电流大，无卤产品。

Low $V_{CE(sat)}$, high current, HF product.

用途 / Applications

用于一般静音开关，液晶显示器的背景照明，线性开关电源。

General purpose switching and muting, LCD back-lighting, supply line switching circuits.

内部等效电路 / Equivalent Circuit**引脚排列 / Pinning**

PIN 1 : Base

PIN 2 : Emitter

PIN 3 : Collector

放大及印章代码 / h_{FE} Classifications & Marking

h _{FE} Range	>150
Marking	HU6

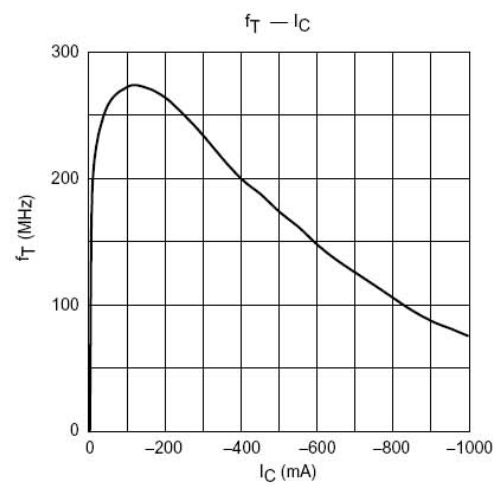
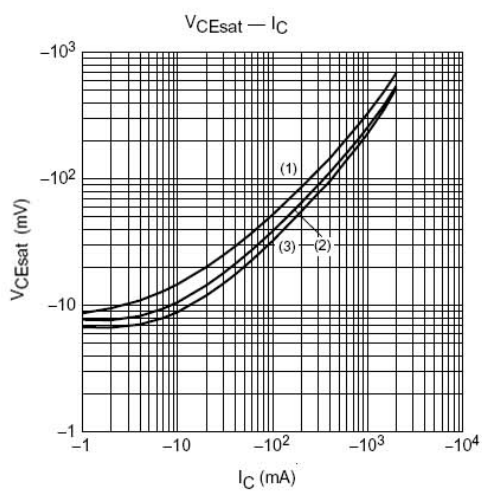
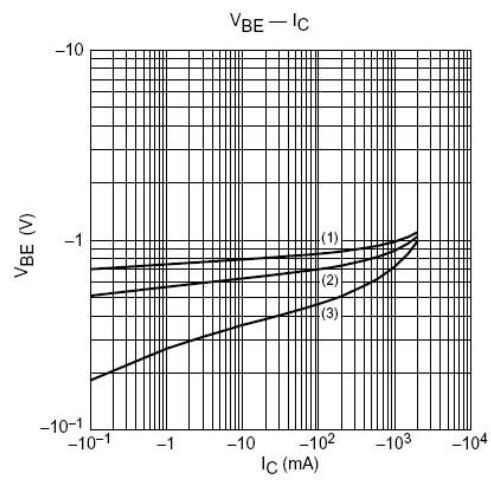
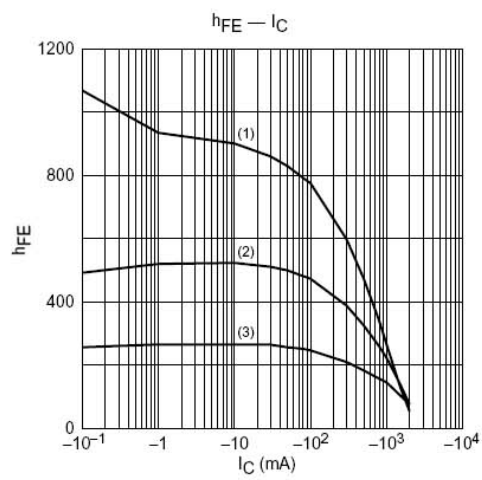
极限参数 / Absolute Maximum Ratings(Ta=25°C)

参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Collector to Base Voltage	V_{CBO}	-80	V
Collector to Emitter Voltage	V_{CEO}	-60	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-1	A
Peak Collector Current	I_{CM}	-2	A
Base Current	I_B	-0.3	A
Peak Base Current	I_{BM}	-1	A
Total Power Dissipation	P_C	400	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

电性能参数 / Electrical Characteristics(Ta=25°C)

参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-60V \quad I_E=0A$			-100	nA
		$V_{CB}=-60V \quad I_E=0A$			-50	μA
		$T_j=150^\circ C$				
Collector-Emitter Cut-Off Current	I_{CES}	$V_{CE}=-60V \quad V_{BE}=0V$			-100	nA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=-5V \quad I_C=0A$			-100	nA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-5V \quad I_C=-500mA$	150	250		
	$h_{FE(2)}$	$V_{CE}=-5V \quad I_C=-1mA$	200	350		
	$h_{FE(3)}$	$V_{CE}=-5V \quad I_C=-1A$	100	160		
Collector-Emitter Saturation Voltage	$V_{CE(sat)(1)}$	$I_C=-100mA \quad I_B=-1mA$		-110	-160	mV
	$V_{CE(sat)(2)}$	$I_C=-500mA \quad I_B=-50mA$		-120	-175	mV
	$V_{CE(sat)(3)}$	$I_C=-1A \quad I_B=-100mA$		-220	-330	mV
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-1A \quad I_B=-50mA$		-0.95	-1.1	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=-5V \quad I_C=-1A$		-0.82	-0.9	V
Transition Frequency	f_T	$V_{CE}=-10V \quad I_C=-50mA$ $f=100MHz$	150	220		MHz
Collector Capacitance	C_C	$V_{CB}=-10V \quad I_E=0A$ $f=1MHz$		9	15	pF

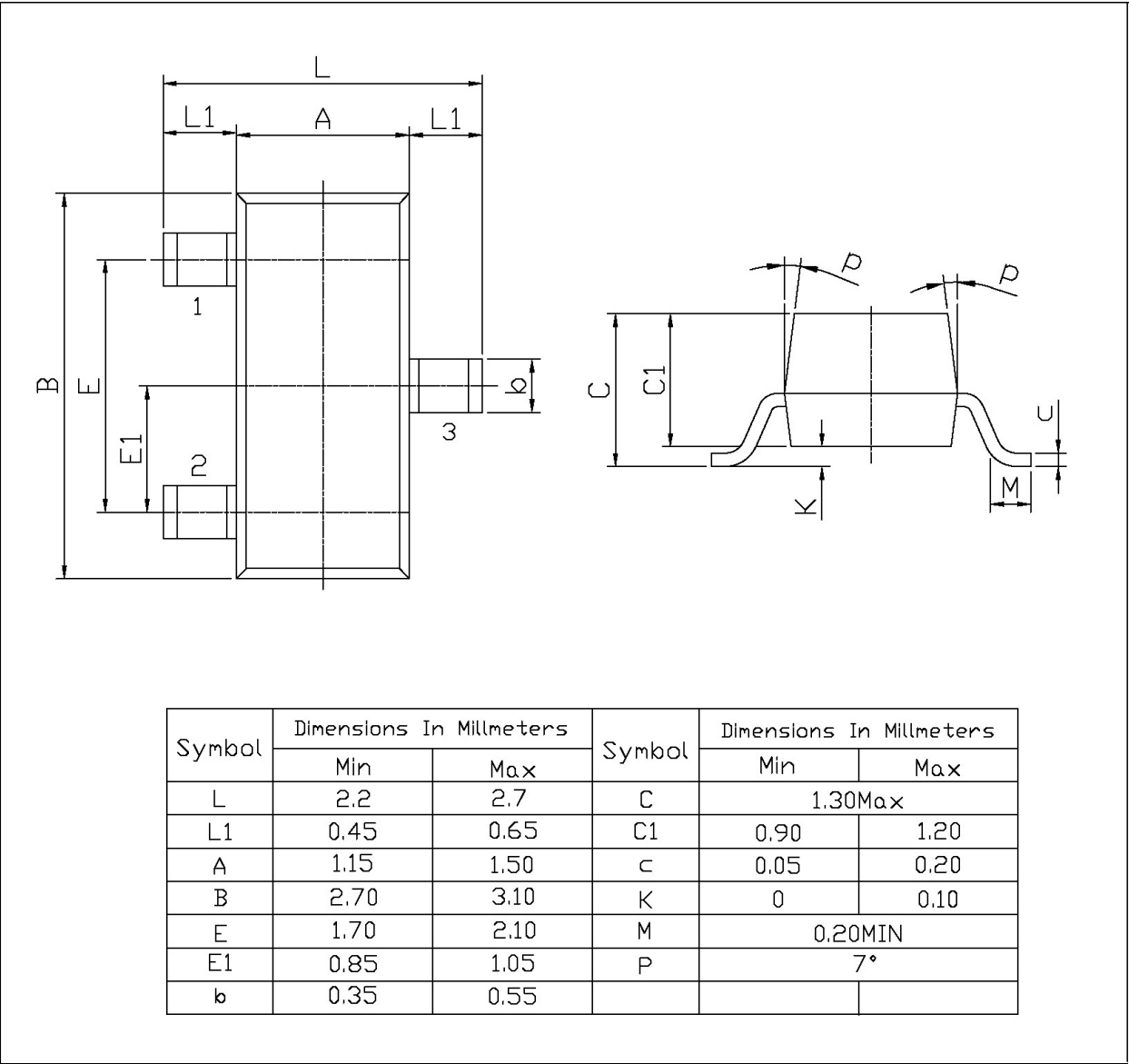
电参数曲线图 / Electrical Characteristic Curve



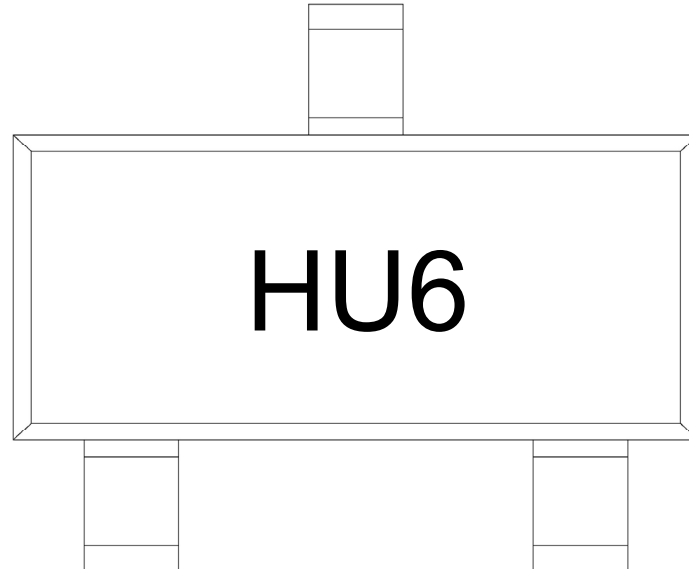
外形尺寸图 / Package Dimensions

SOT-23

单位：mm



印章说明 / Marking Instructions



说明：

H： 为公司代码

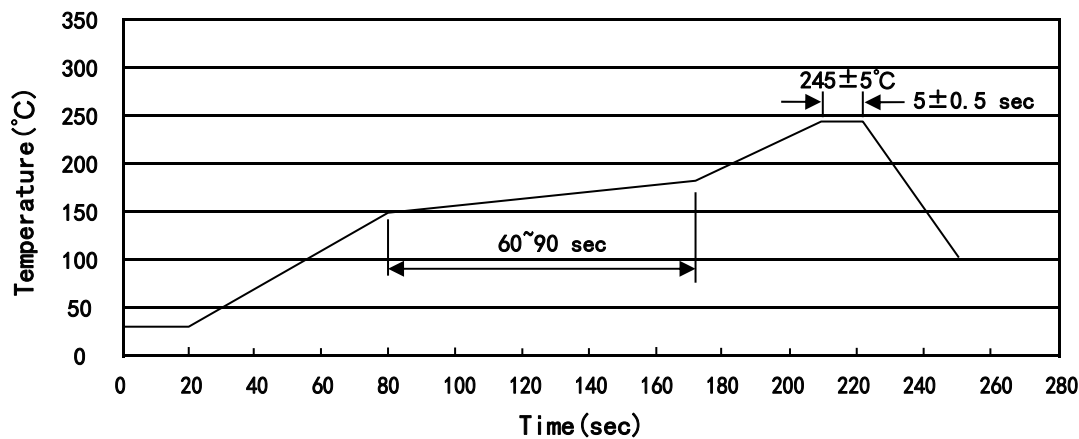
U6： 为型号代码

Note:

H： Company Code

U6： Product Type Code

回流焊温度曲线图(无铅) / Temperature Profile for IR Reflow Soldering(Pb-Free)



- 说明 :
- 1、预热温度 150 ~ 180℃ , 时间 60 ~ 90sec;
 - 2、峰值温度 245±5℃ , 时间持续为 5±0.5sec;
 - 3、焊接制程冷却速度为 2 ~ 10℃/sec.
- Note:
- 1.Preheating:150~180℃, Time:60~90sec.
 - 2.Peak Temp.:245±5℃, Duration:5±0.5sec.
 3. Cooling Speed: 2~10℃/sec.

耐焊接热试验条件 / Resistance to Soldering Heat Test Conditions

温度 : 260±5℃ 时间 : 10±1 sec. Temp.:260±5℃ Time:10±1 sec

包装规格 / Packaging SPEC.

卷盘包装 / REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
SOT-23	3,000	10	30,000	6	180,000	7" x8	180×120×180	390×385×205

使用说明 / Notices