

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.

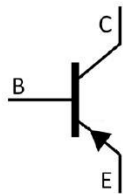
特征 / Features

PC、IC 大, h_{FE} 特性极好, 与 9013M 互补, 无卤产品。
High P_C and I_C , Excellent h_{FE} linearity, complementary pair with 9013M, HF Product.

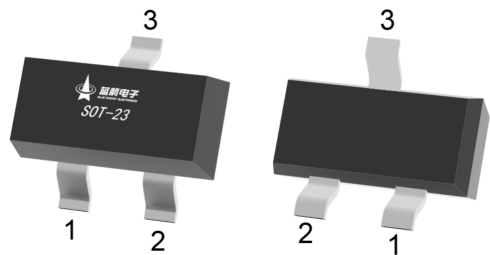
用途 / Applications

用于收音机推挽功放。
Amplifier of portable radios in class B push-pull operation.

内部等效电路 / Equivalent Circuit



引脚排列 / Pinning



PIN1 : Base PIN 2 : Emitter PIN 3 : Collector

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

h_{FE} Classifications Symbol	D	E	F	G	H	I
h_{FE} Range	64~91	78~112	96~135	112~166	144~202	188~276
Marking	H2TD	H2TE	H2TF	H2TG	H2TH	H2TI

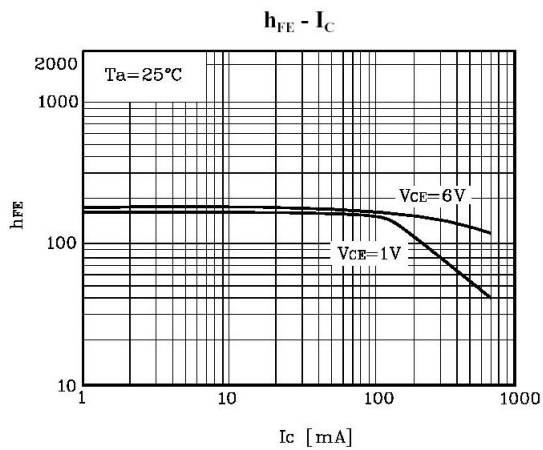
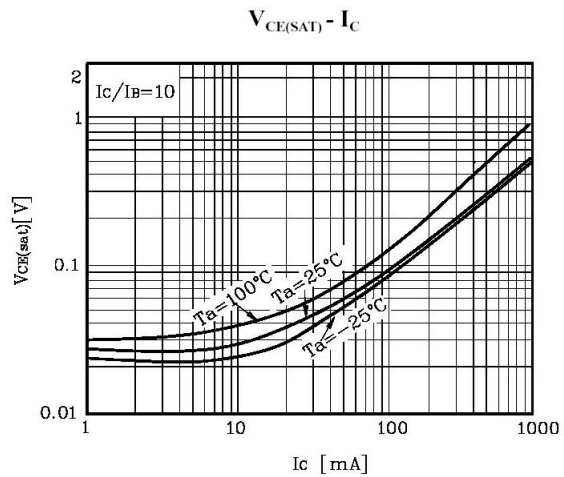
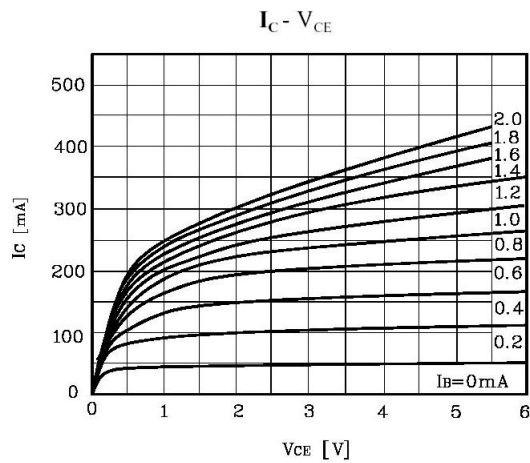
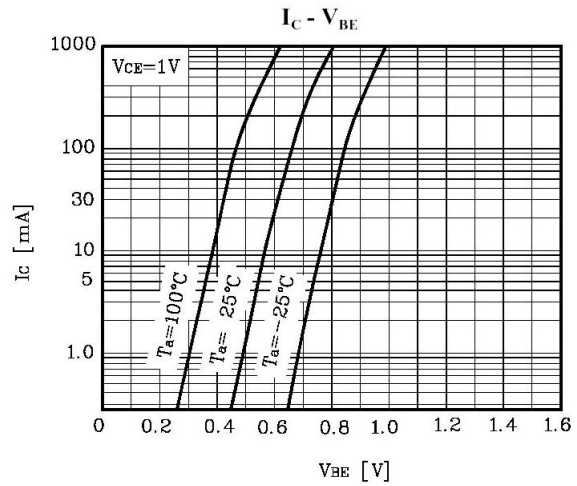
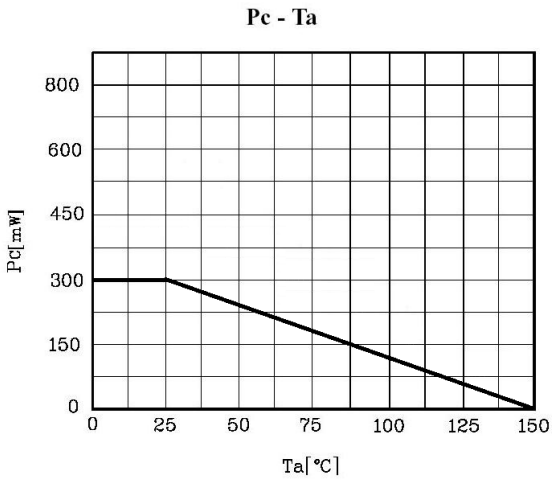
极限参数 / Absolute Maximum Ratings(Ta=25°C)

参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Collector to Base Voltage	V _{CBO}	-40	V
Collector to Emitter Voltage	V _{CEO}	-20	V
Emitter to Base Voltage	V _{EBO}	-5.0	V
Collector Current	I _C	-500	mA
Base Current	I _B	-100	mA
Collector Power Dissipation	P _C	300	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 to Base Breakdown Voltage	V _{CBO}	I _C =-0.1mA I _E =0	-40			V
Collector to Emitter Breakdown Voltage	V _{CEO}	I _C =-1.0mA I _B =0	-20			V
Emitter to Base Breakdown Voltage	V _{EBO}	I _E =-0.1mA I _C =0	-5.0			V
Collector Cut-Off Current	I _{CBO}	V _{CB} =-25V I _E =0			-0.1	μA
Emitter Cut-off Current	I _{EBO}	V _{EB} =-3.0V I _C =0			-0.1	μA
DC Current Gain	h _{FE(1)}	V _{CE} =-1.0V I _C =-50mA	64		276	
	h _{FE(2)}	V _{CE} =-1.0V I _C =-500mA	40			
Collector-Emitter Saturation voltage	V _{CE(sat)}	I _C =-500mA I _B =-50mA		-0.18	-0.6	V
Base-Emitter Saturation Voltage	V _{BE(sat)}	I _C =-500mA I _B =-50mA		-0.95	-1.2	V
Base-Emitter Voltage	V _{BE}	V _{CE} =-1.0V I _C =-10mA		-0.67	-0.7	V

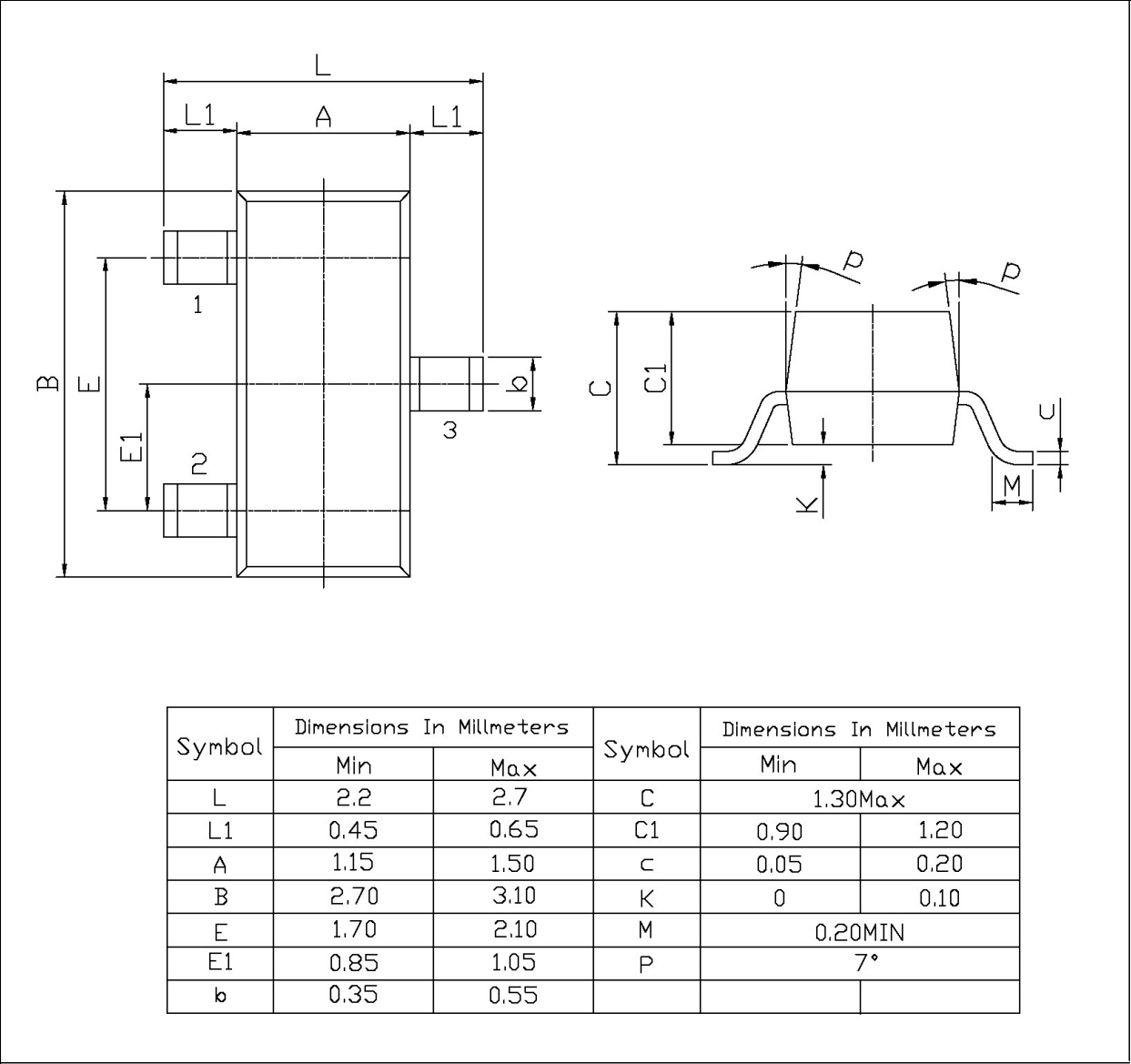
电参数曲线图 / Electrical Characteristic Curve



外形尺寸图 / Package Dimensions

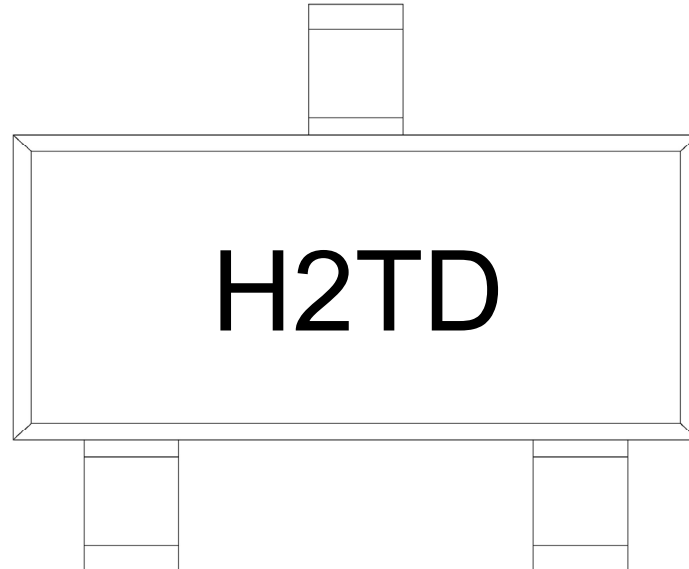
SOT-23

单位：mm





印章说明 / Marking Instructions



说明：

H： 为公司代码

2T： 为型号代码

D： 为 h_{FE} 档次代码

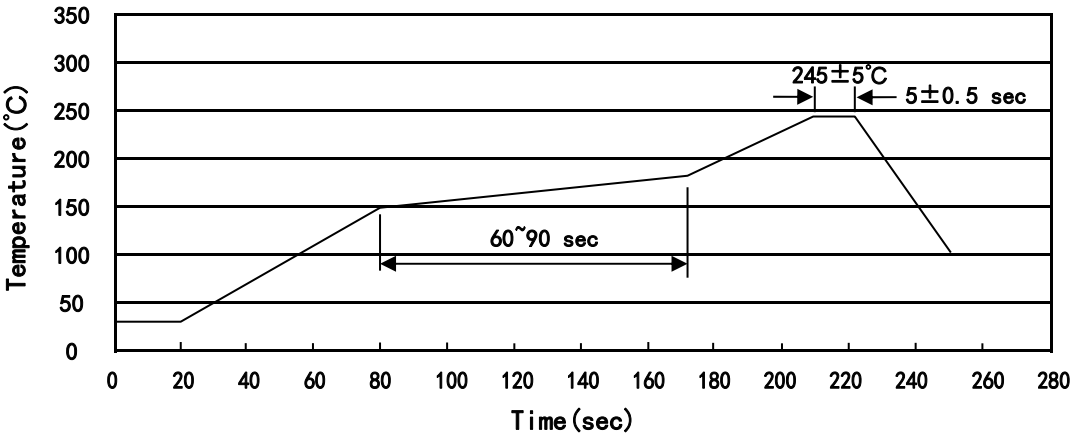
Note:

H： Company Code

2T： Product Type Code

D： h_{FE} Classifications Symbol 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" ×8	180×120×180	390×385×205

使用说明 / Notices