

/ Descriptions

SOT-23 PNP Silicon PNP transistor in a SOT-23 Plastic Package.

/ Features

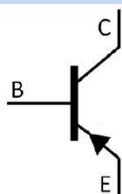
2SC5344S

High h_{FE} , complementary pair with 2SC5344S.

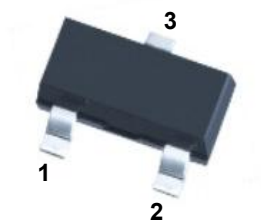
/ Applications

Audio power amplifier application.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Emitter PIN 3 Collector

/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	O	Y
h_{FE} Range	100~200	160~320
Marking	HEAO	HEAY

/ Absolute Maximum Ratings($T_a=25^\circ\text{C}$)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-35	V
Collector to Emitter Voltage	V_{CEO}	-30	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current	I_C	-800	mA
Collector Power Dissipation	P_C	200	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

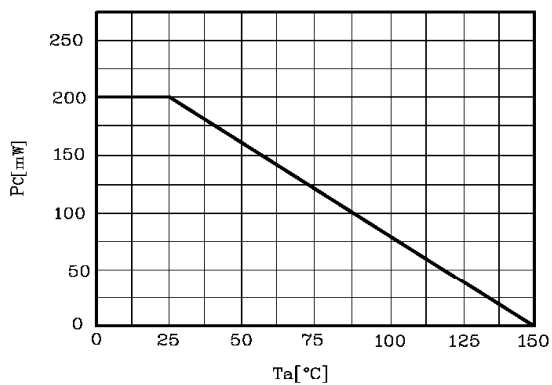
/ Electrical Characteristics($T_a=25^\circ\text{C}$)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	V_{CBO}	$I_C=-500\mu\text{A}$ $I_E=0$	-35			V
Collector-Emitter breakdown Voltage	V_{CEO}	$I_C=-1.0\text{mA}$ $I_B=0$	-30			V
Emitter-Base Breakdown Voltage	V_{EBO}	$I_E=-50\mu\text{A}$ $I_C=0$	-5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-35\text{V}$ $I_E=0$			-0.1	μA
Emitter Base Cut-Off Current	I_{EBO}	$V_{EB}=-5.0\text{V}$ $I_C=0$			-0.1	μA
DC Current Gain	h_{FE}	$V_{CE}=-1.0\text{V}$ $I_C=-100\text{mA}$	100		320	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-500\text{mA}$ $I_B=-20\text{mA}$			-0.5	V
Transition Frequency	f_T	$V_{CE}=-5.0\text{V}$ $I_E=-10\text{mA}$		120		MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=-10\text{V}$ $I_E=0$ $f=1.0\text{MHz}$		19		pF

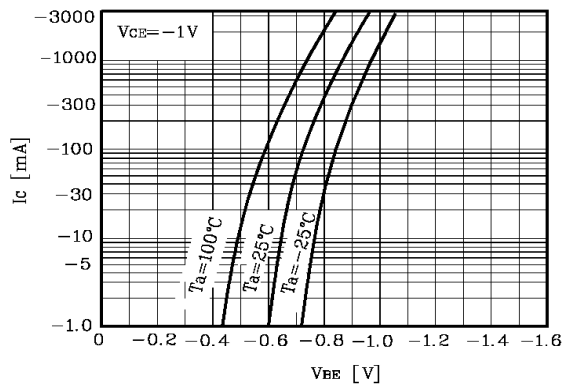


/ Electrical Characteristic Curve

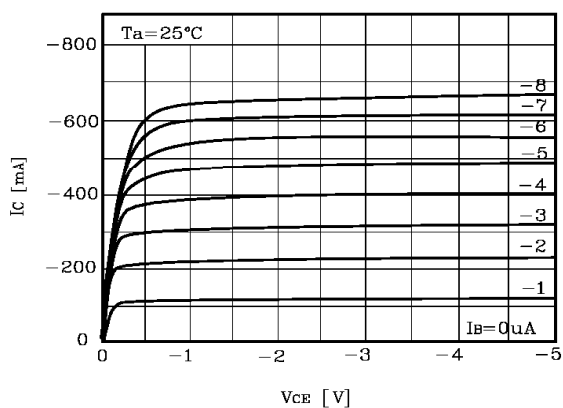
Pc-Ta



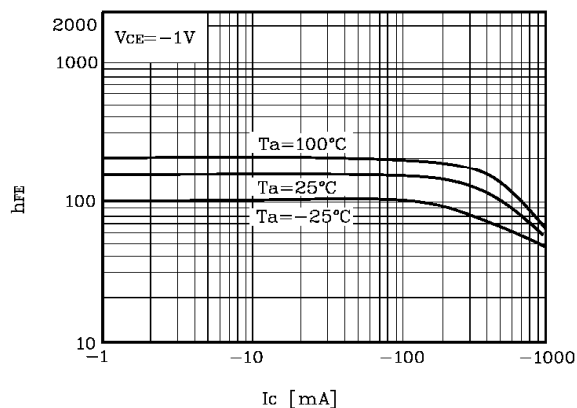
IC - V_{BE}



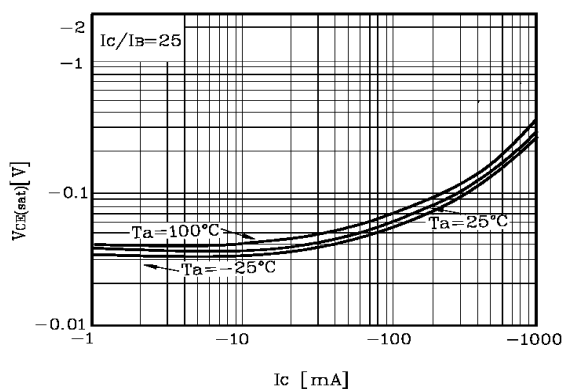
I_C - V_{CE}



h_{FE} - I_C



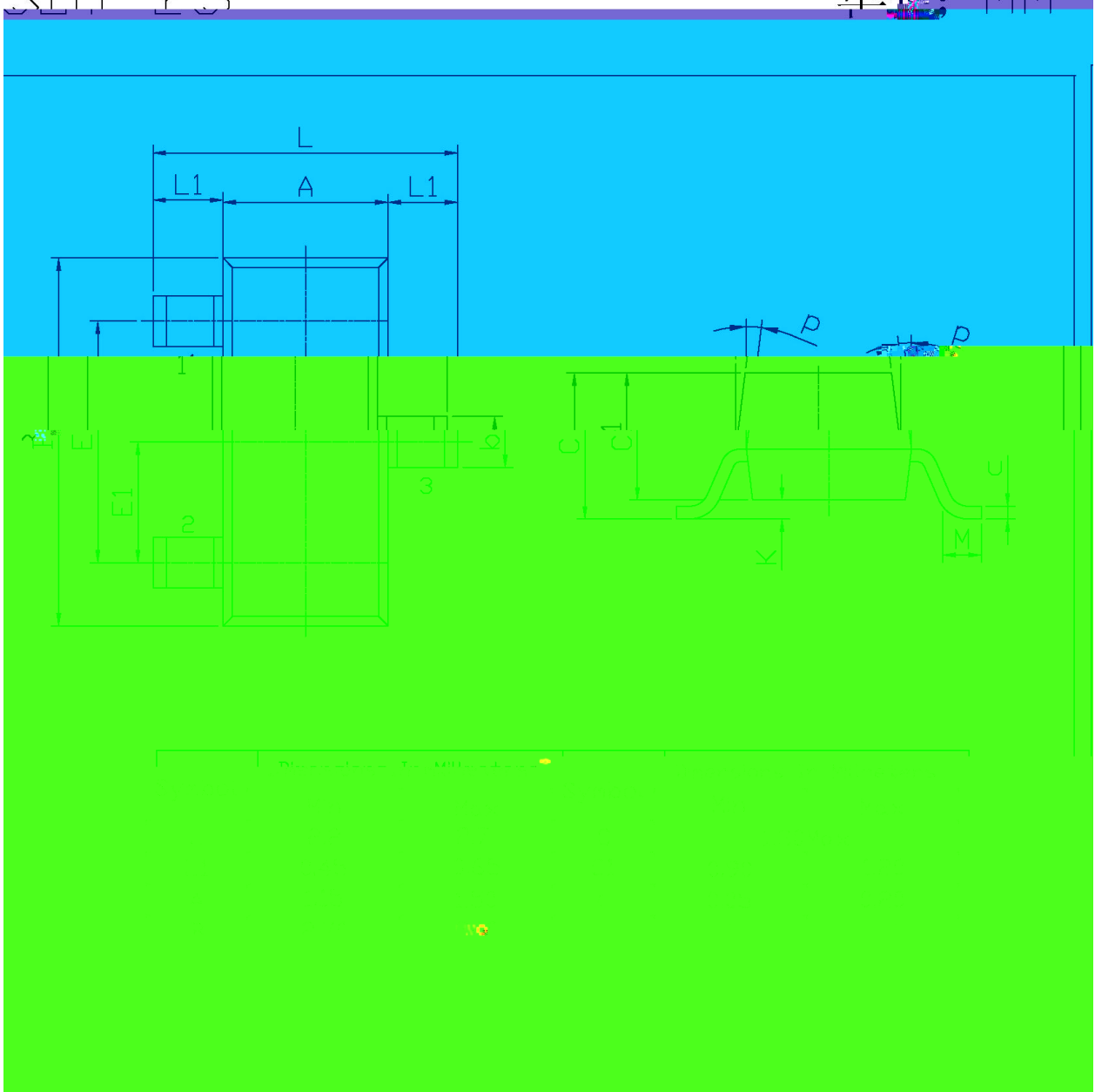
V_{CE(SAT)} - I_C



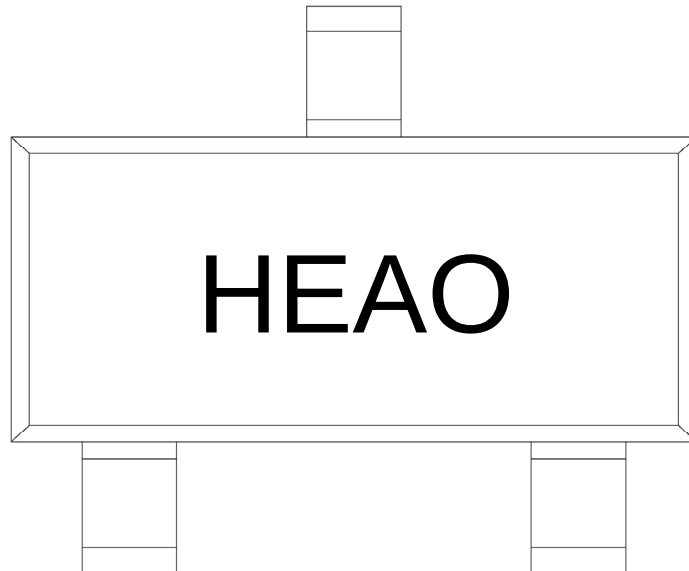
/ **Package Dimensions**

SOT-23

单位: mm



/ Marking Instructions



H

EA

O: h_{FE}

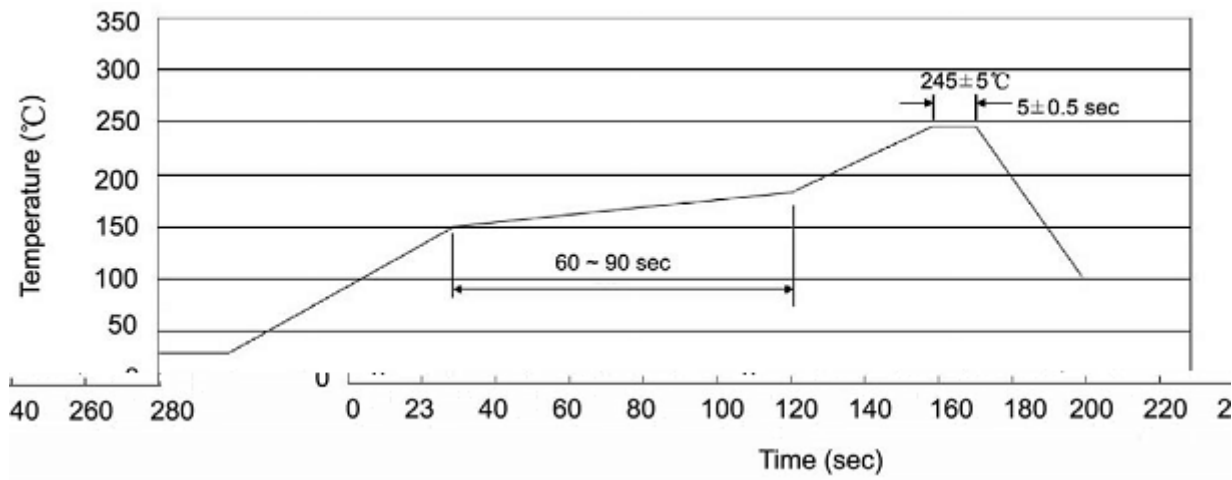
Note:

H: Company Code.

EA: Product Type Code

O: h_{FE} Classifications Symbol Code

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- | | | | | | |
|---|-------|-----|----|-----------|---|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 245±5 | | | 5±0.5sec; | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | | 2 | 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Units 包装数量 Dimension 包装尺寸 (unit: mm