

/ Descriptions

SOT-23

PNP

Silicon PNP transistor in a SOT-23 Plastic Package.

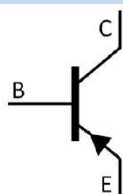
/ Features

Large I_C , low $V_{CE(sat)}$, complementary pair with the 2SC5342S.

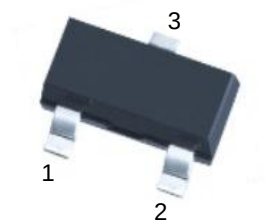
/ Applications

Medium power amplifier applications.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Emitter PIN 3 Collector

/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	O	Y
h_{FE} Range	70 140	120 240
Marking	HAAO	HAAY

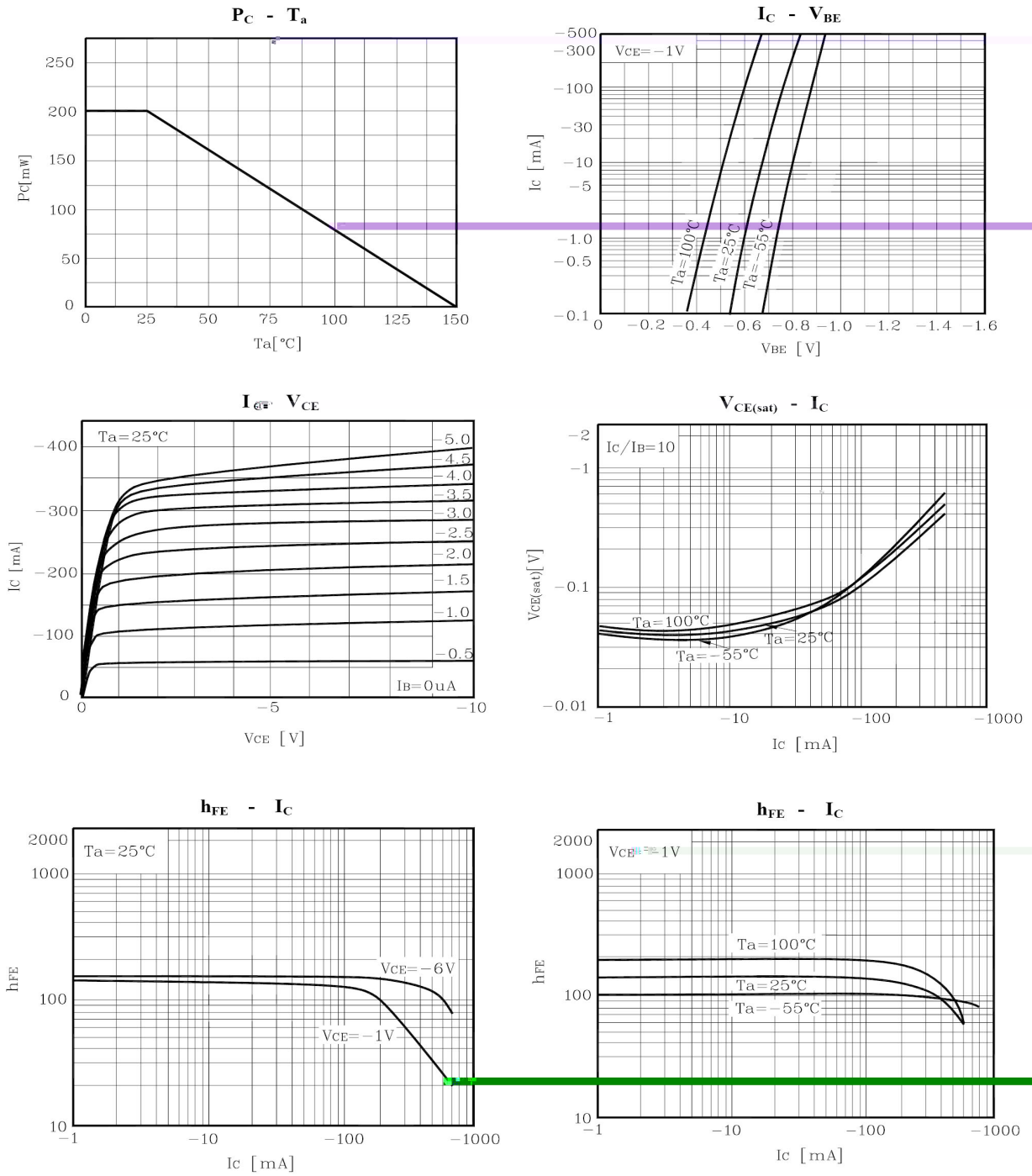
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-40	V
Collector to Emitter Voltage	V_{CEO}	-32	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current	I_C	-500	mA
Collector Power Dissipation	P_C	200	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	V_{CBO}	$I_C = -100\mu A$ $I_E = 0$	-40			V
Collector-Emitter Breakdown Voltage	V_{CEO}	$I_C = -1mA$ $I_B = 0$	-32			V
Emitter-Base Breakdown Voltage	V_{EBO}	$I_E = -10\mu A$ $I_C = 0$	-5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB} = -40V$ $I_E = 0$			-0.1	μA
Emitter Base Cut-Off Current	I_{EBO}	$V_{EB} = -5.0V$ $I_C = 0$			-0.1	μA
DC Current Gain	h_{FE}	$V_{CE} = -1.0V$ $I_C = -100mA$	70		240	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -100mA$ $I_B = -10mA$			-0.25	V
Transition Frequency	f_T	$V_{CE} = -6.0V$ $I_E = -20mA$		200		MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -6.0V$ $I_E = 0$ $f = 1.0MHz$		7.5		pF

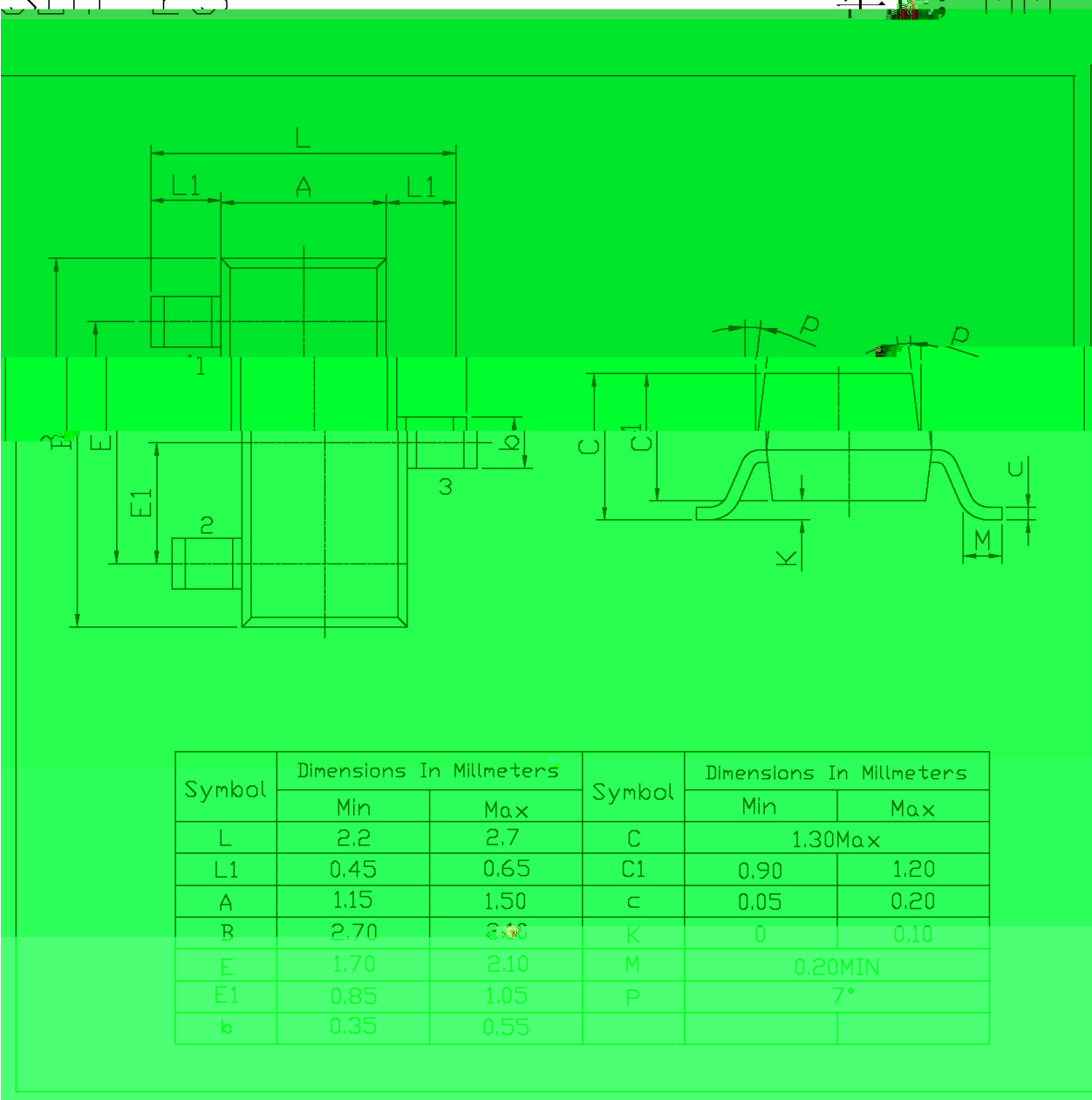
/ Electrical Characteristic Curve



/ Package Dimensions

SOT-23

单位: mm



/ Marking Instructions



H

AA

O: h_{FE}

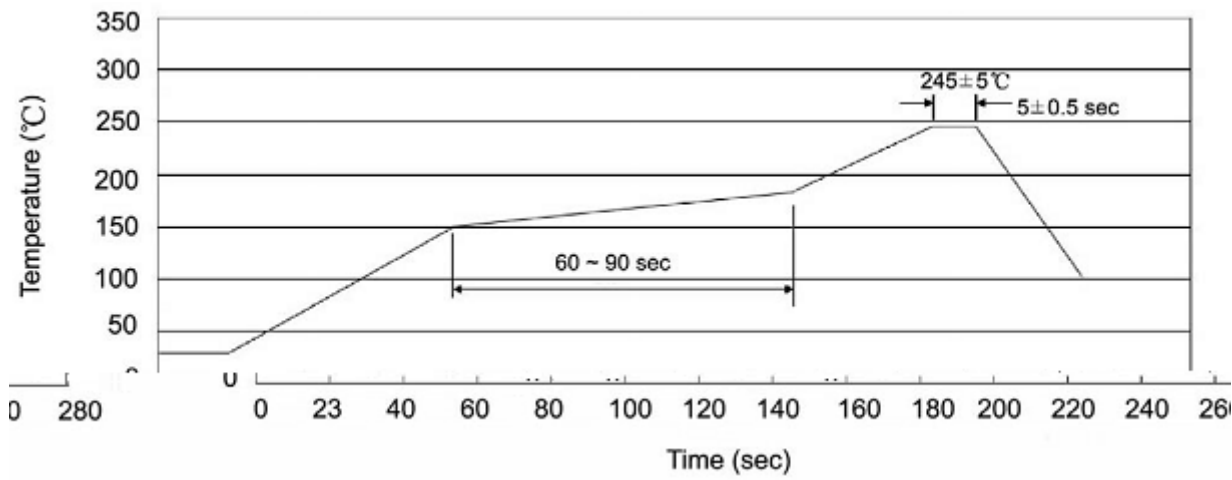
Note:

H: Company Code.

AA: 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