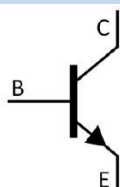




SOT-23 Plastic Package Silicon NPN transistor in a SOT-23 Plastic Package.

2SA1981S
High h_{FE} complementary pair with 2SA1981S.

Audio power amplifier application



PIN1 Base

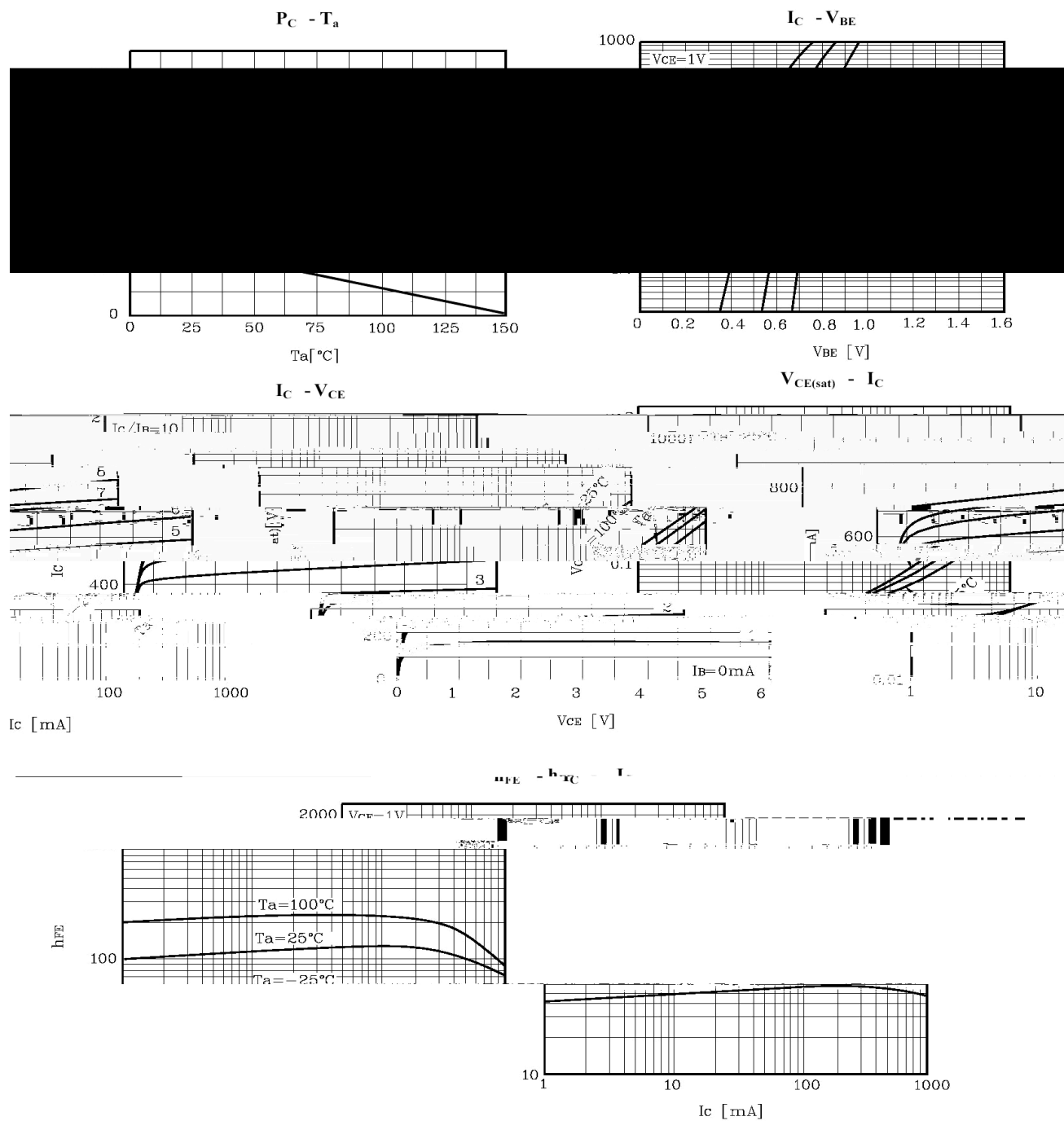
h_{FE} Classifications Symbol	O	Y
h_{FE} Range	100 200	160 320
Marking	HFAO	HFAY



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	°C
Storage Temperature	T_{stg}	-55~150	°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=100\mu A$ $I_E=0$	35			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=1.0mA$ $I_B=0$	30			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=10\mu A$ $I_C=0$	5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=35V$ $I_E=0$			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}	$V_{CE}=1.0V$ $I_C=100mA$	100		320	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=500mA$ $I_B=50mA$			0.5	V
Transition Frequency	f_T	$V_{CE}=5.0V$ $I_C=10mA$		120		MHz
Collector output capacitance	C_{ob}	$V_{CB}=10V$ $f=1.0MHz$ $I_E=0$		13		pF

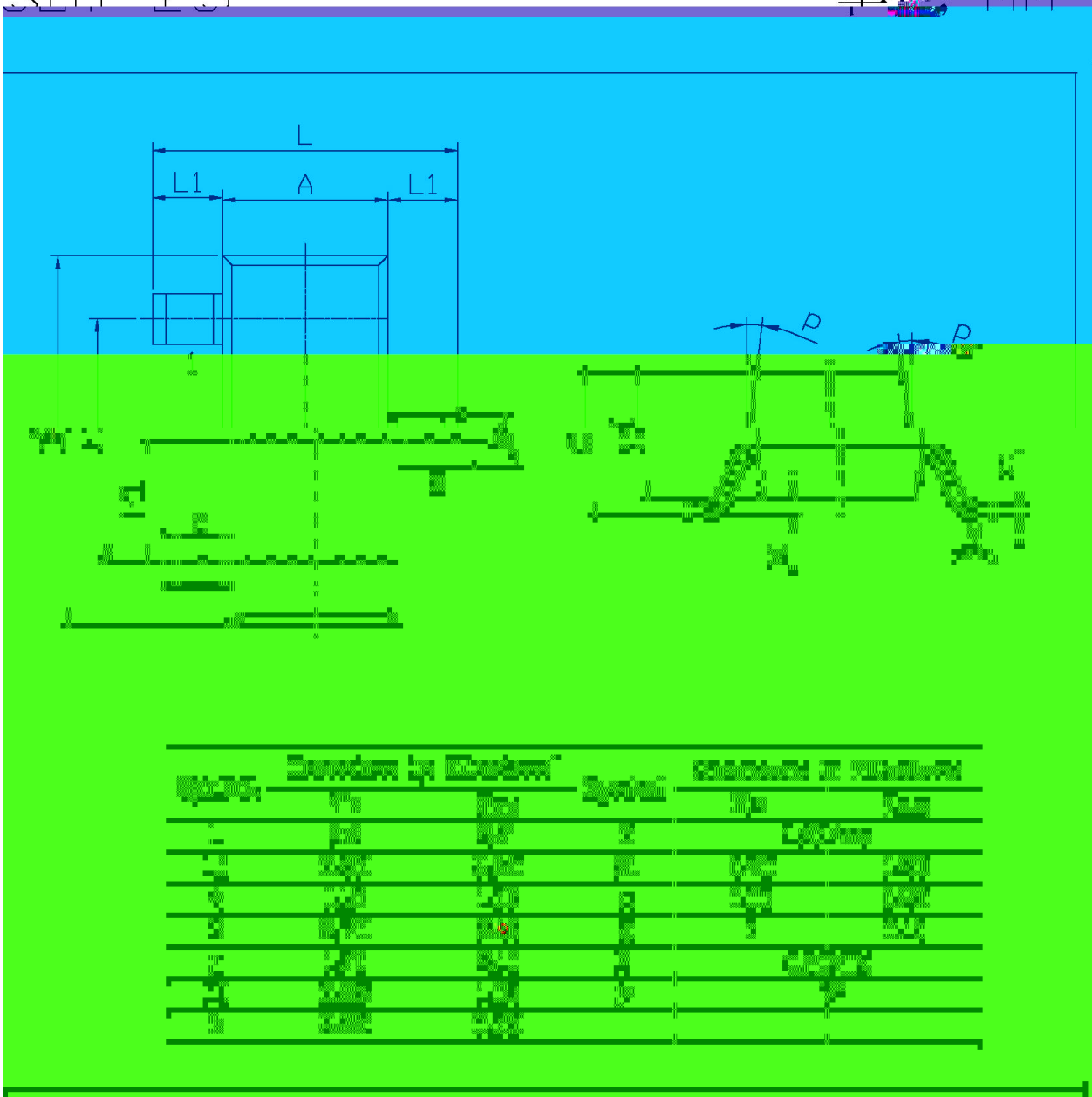


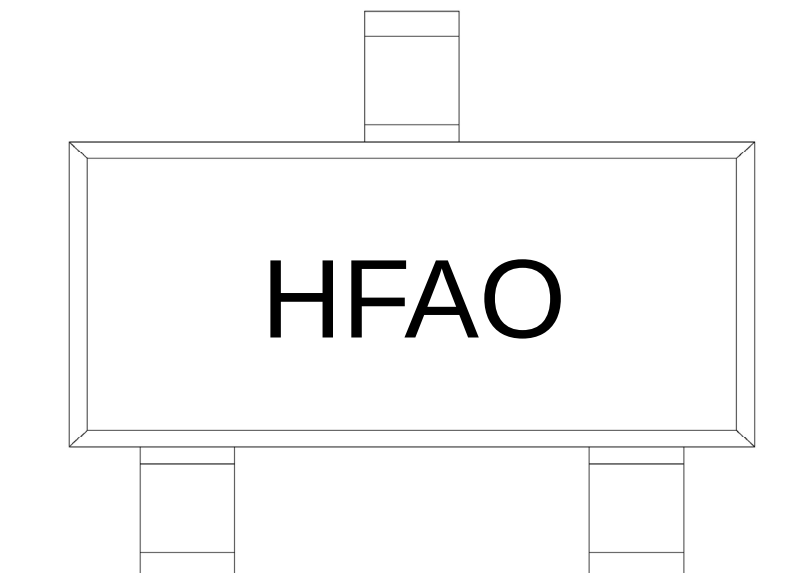




SOT-23

单位: mm





H

FA

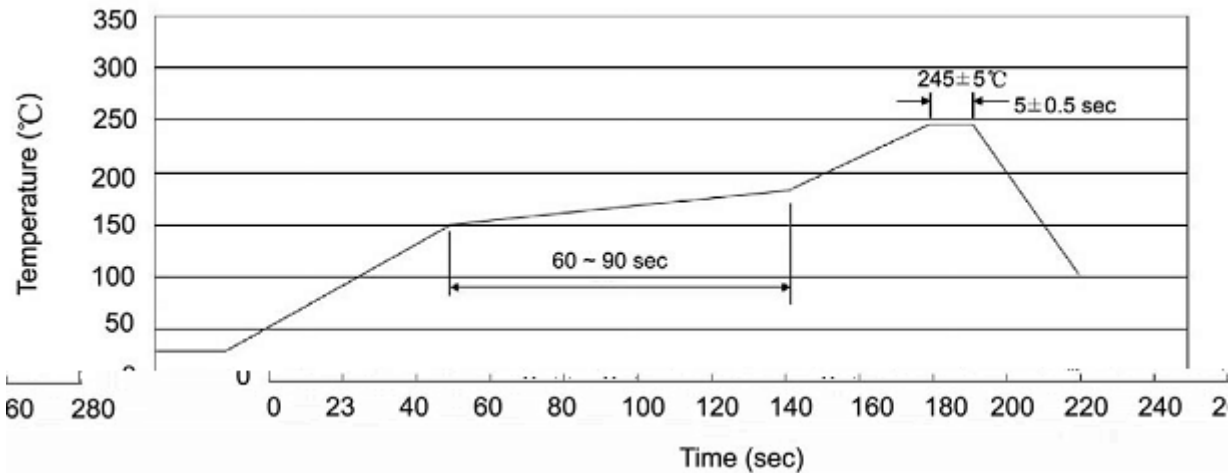
O h_{FE}

Note:

H Company Code

FA Product Type Code

O h_{FE} Classifications Symbol Code



Note:

- 1251506090sec;1.Preheating:25~150,Time:60~90sec.
- 2245±55±0.5245±5,Duration:5±0.5sec.
- 3/REEL

260±1 sec.

Temp.:260±5°C

Time:10±1 sec

/ REEL

Package Type 封装形式	Units 包装数量				Dimension 包装尺寸 (unit: mm ³)		
	盘盒	只盒	盒箱	只箱		盒	箱
					"		