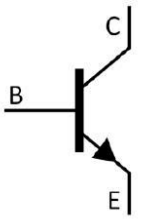
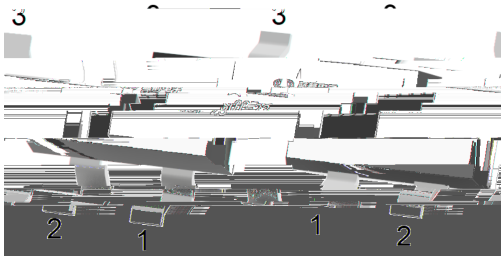
SOT023 ĻĻĖ NPN ÆṀ ч s ‖ ㄱ Silicon NPN transistor in a SOT-23 Plastic Package.

лъ 8550M ЙĻ ´ ı ņ ғ β
Complementary pair with 8550M,HF Product.

₹ ' ѽ ᶻ ↄ ت
Power amplifier applications.





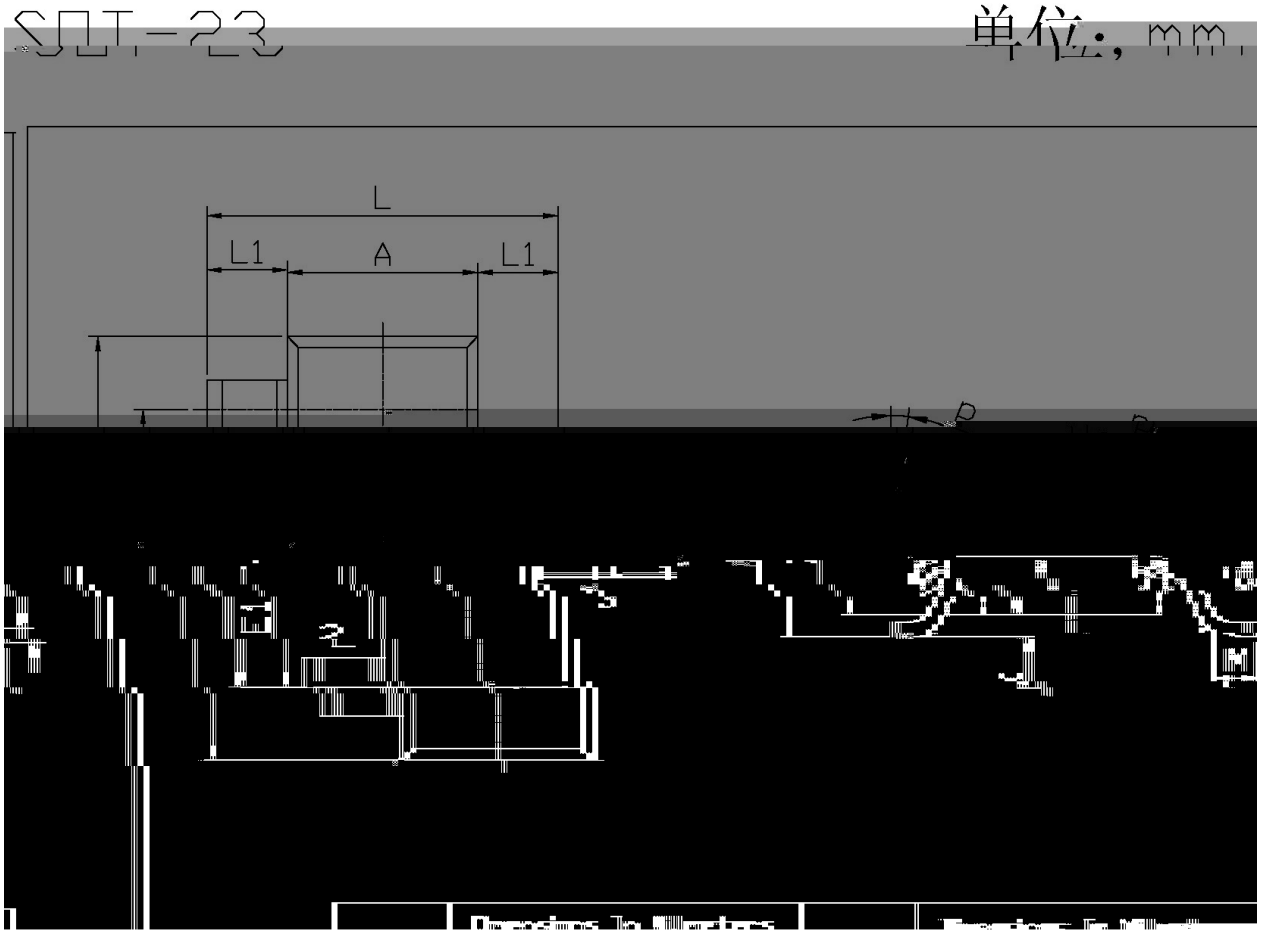
PIN1 χ Base PIN 2 χ Emitter PIN 3 χ Collector

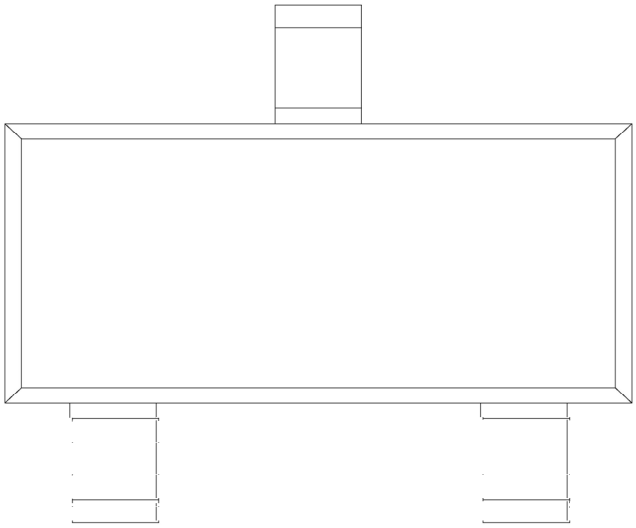
h_{FE} Classifications Symbol	B	C	D
h_{FE} Range	85~160	120~200	160~300
Marking	HY1B	HY1C	HY1D

v ̈Ω Parameter	ϒ Symbol	̈Ω Ö Rating	D Ч Unit
Collector to Base Voltage	V_{CBO}	40	V
Collector to Emitter Voltage	V_{CEO}	25	V
Emitter to Base Voltage	V_{EBO}	6	V
Collector Current - Continuous	I_C	1.5	A
Base Current	I_B	0.5	A
Collector Power Dissipation	P_C	300	mW
Junction Temperature	T_j	150	ł
Storage Temperature Range	T_{stg}	-55 Ќ 150	ł

v ̈Ω Parameter	ϒ Symbol	Ш ː ̊ ţ Test Conditions	ω ņ Ö Min	Ɛ ʒ Ö Typ	ω ᶻ Ö Max	D Ч 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=2.0mA I_B=0	25			V
Emitter to Base Breakdown Voltage	V_{EBO}	I_C=0.1mA I_C=0	C B O			

SOT-23 单位：mm





ب ˝ χ

H χ ʬ ϛ Ґ

Y1 χ ʬ ϳ Ґ

C χ ʬ k_{FE} ʿ Ł

Temperature Profile for IR Reflow Soldering(Pb-Free)

ب ˝ χ

1 Ĺ ♬ □ ỷ 150 Ḱ 180 ɬ ı `H ژ 60 Ḱ 90sec;

2 Š Ë □ ỷ 245 ° 5 ɬ ı `H ژ 'Y ﾊ ㎞ 5 ° 0.5sec;

3 ì ˙ ﾘ ¸ ɔ ﾙ ỷ ㎞ 2 Ḱ 10 ɬ /sec.

Note:

1.Preheating:150~180 ɬ , Time:60~90sec.

2.Peak Temp.:245 ° 5 ɬ , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ɬ /sec.

□ ỷ χ 260 ° 5 ɬ `H ژ χ 10 ° 1 sec.

Temp.:260 ° 5 ɬ Time:10 ° 1 sec

ɔ ` ﾔ Ł / REEL

Package Type	Units					Dimension		(unit mm³)
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
SOT-23	3,000	10	30,000	6	180,000	7		