

/ Descriptions

SOT23 ММ Ё NPN æ М ç s ll 1 Silicon NPN transistor in a SOT-23 Plastic Package.

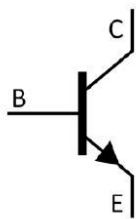
/ Features

лъ 8550М Ы́ ´ ı ñ f ß
Complementary pair with 8550M,HF Product.

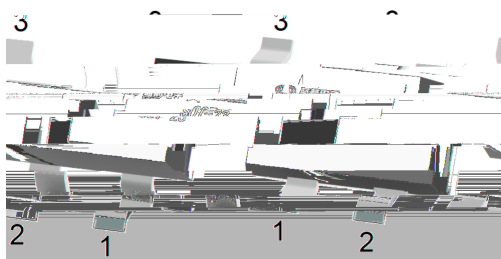
/ Applications

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Power amplifier applications.

/ Equivalent Circuit



/ Pinning



PIN1 χ Base PIN 2 χ Emitter PIN 3 χ Collector

/ hFE Classifications & Marking

hFE Classifications Symbol	B	C	D
hFE Range	85~160	120~200	160~300
Marking	HY1B	HY1C	HY1D

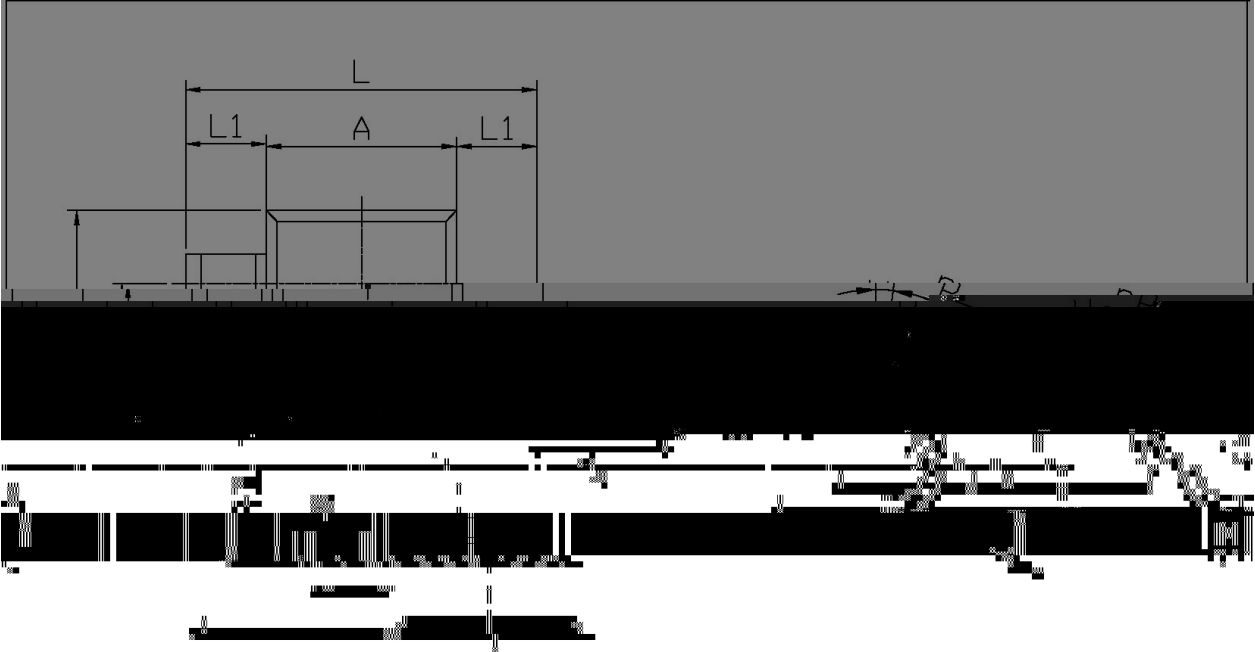
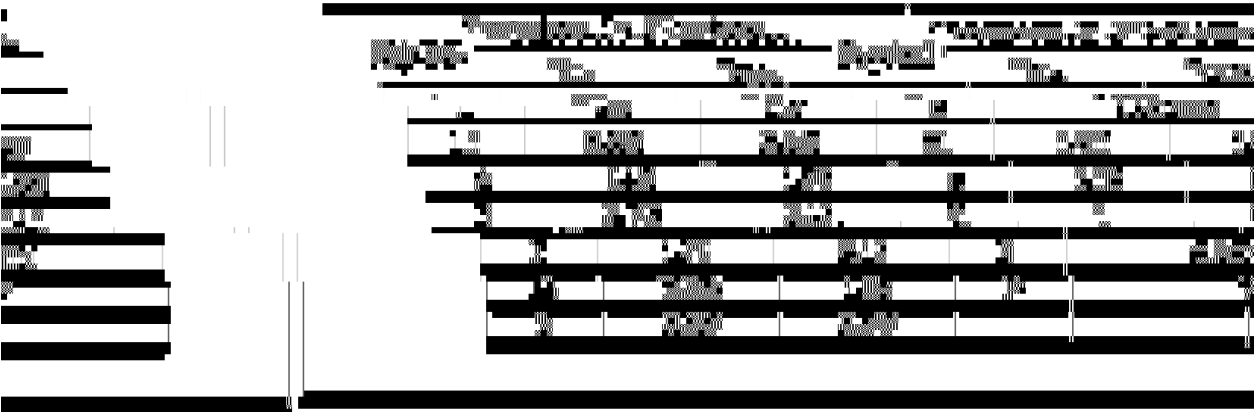
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	40	V
Collector to Emitter Voltage	V_{CEO}	25	V
Emitter to Base Voltage	V_{EBO}	6	V
Collector Current - Continuous	I_C	1.5	A
Base Current	I_B	0.5	A
Collector Power Dissipation	P_C	300	mW
Junction Temperature	T_j	150	°C
Storage Temperature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

Parameter	Symbol	Test Conditions	Min	Typ	Max	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			

/ Package Dimensions

SOT-23

单位: mm



A line drawing of a rectangular table. The table has a large rectangular top with a beveled edge. In the center of the table's length, there is a pedestal consisting of three stacked rectangular sections. The table is supported by four legs, which are attached to the underside of the table top. Each leg has a small horizontal bar near the base.

$$C_X \quad \text{is } k_{FE} \quad \text{L}$$

ho147de147(n)5(s)TJT0016 89.0001Y5.10.0 Prod)2Zy

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

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- 1 ஸ ஸ 150 K 180 ட ஸ ஸ 60 K 90sec;
- 2 ஸ ஸ 245 ° 5 ட ஸ ஸ 'Y ஸ ஸ 5 ° 0.5sec;
- 3 ஸ ஸ ஸ ஸ 2 K 10 ட /sec.

Note:

- 1.Preheating:150~180 ட , Time:60~90sec.
- 2.Peak Temp.:245 ° 5 ட , Duration:5 ° 0.5sec.
3. Cooling Speed: 2~10 ட /sec.

/ Resistance to Soldering Heat Test Conditions

ஸ ஸ 260 ° 5 ட ஸ ஸ 10 ° 1 sec. Temp.:260 ° 5 ட Time:10 ° 1 sec

/ Packaging SPEC.

ஸ ஸ ஸ / REEL

Package Type	Units					Dimension (unit mm ³)		
	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		