

٢٠٨٣ / Descriptions

SOT-323 NPN Silicon NPN transistor in a SOT-323 Plastic Package.

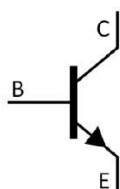
٢٠٨٣ / Features

High f_T , small $C_{C.rbb'}$ and high gain, small NF.

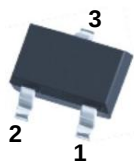
٢٠٨٣ / Applications

High-Frequency amplifier transistor

٢٠٨٣ / Equivalent Circuit



٢٠٨٣ / Pinning



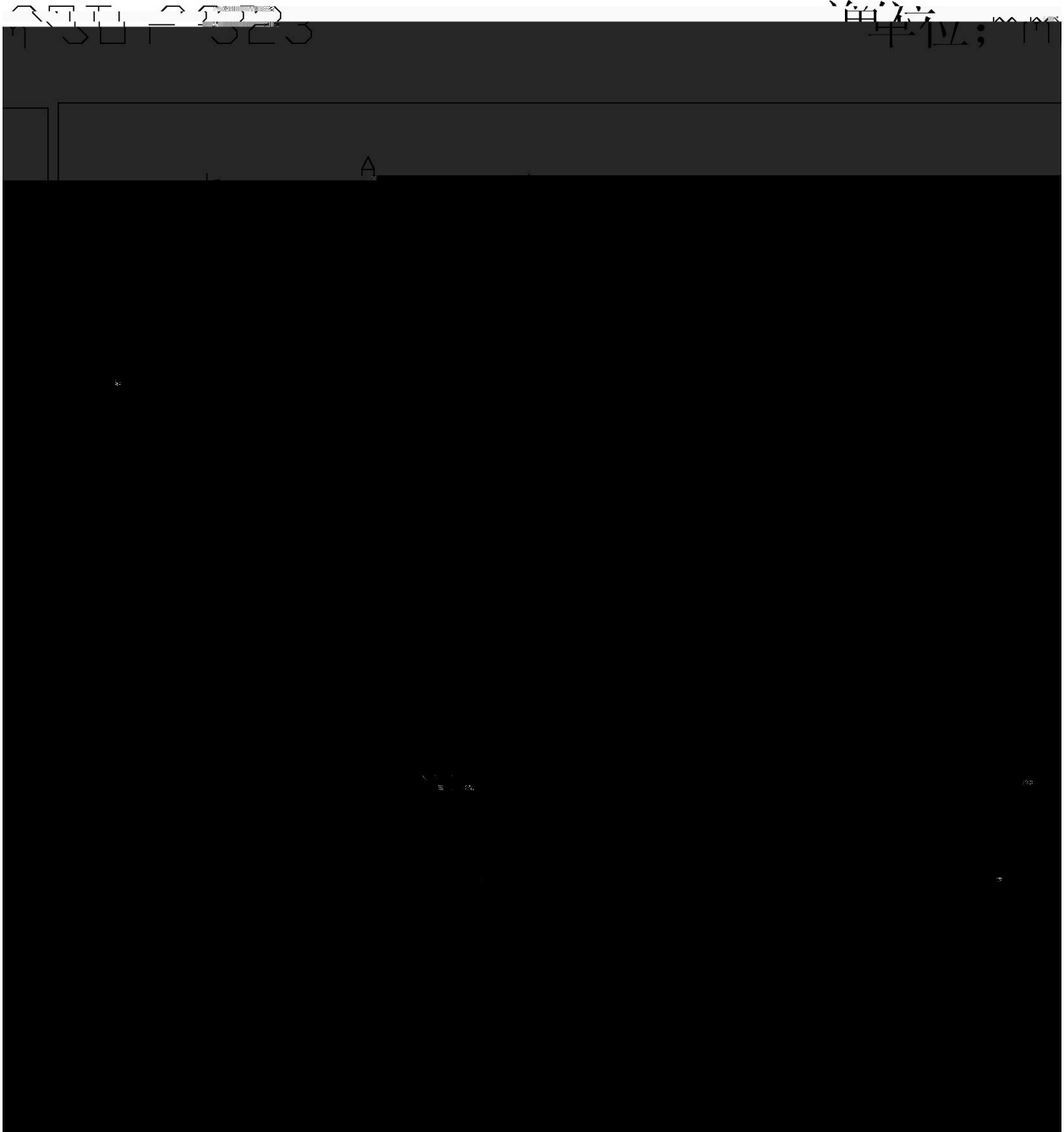
PIN1 Emitter PIN 2 Base PIN 3 Collector

٢٠٨٣ / Marking

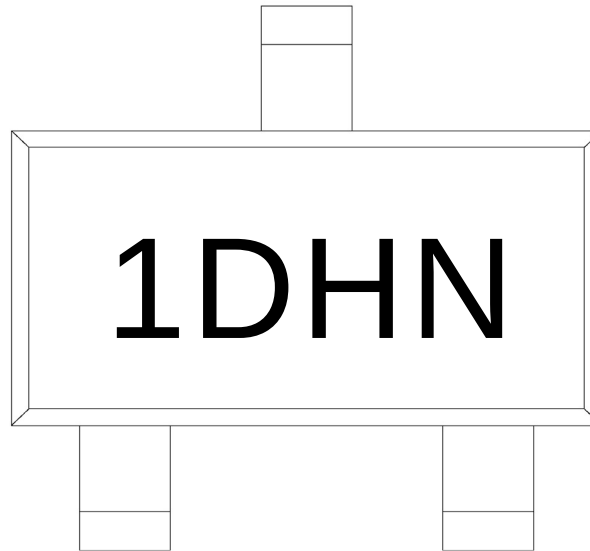
h_{FE} Classifications Symbol	N	P
h_{FE} Range	56 120	82 180
Marking	1DHN	1DHP

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	20	V
Collector to Emitter Voltage	V_{CEO}	11	V
Emitter to Base Voltage	V_{EBO}	3.0	V
Collector Current - Continuous	I_C	50	mA
Collector Power Dissipation	P_C	200	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

⊂ É Ò Ì f / Package Dimensions



1. 1st / Marking Instructions



1D

H

N h_{FE}

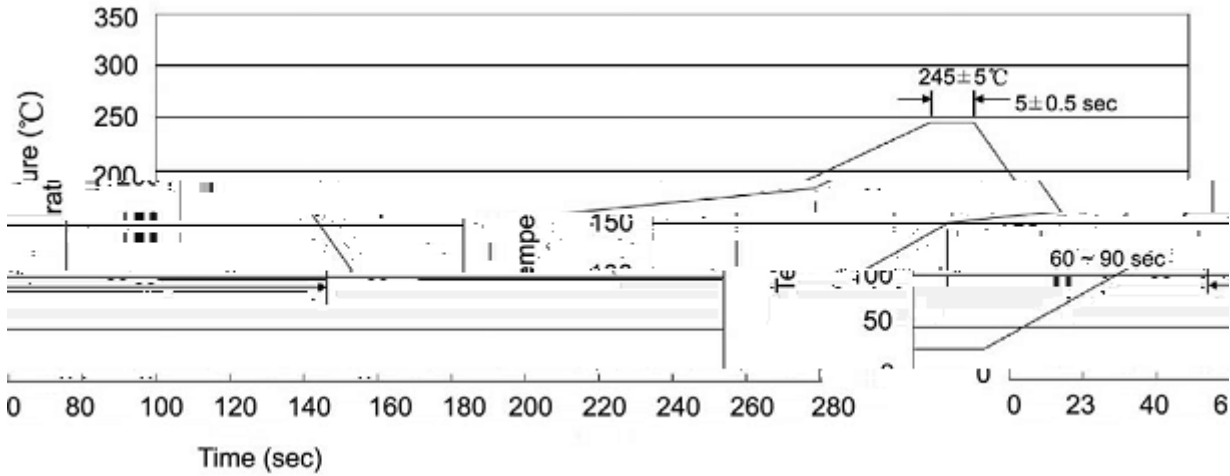
Note:

1D: Product Type.

H: Company Code.

N: h_{FE} Classifications Symbol

Thermal Characteristics / 热特性



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 / 抗焊热测试条件

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

Packaging SPEC. / 封装规格

/ 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-323	3,000	10	30,000	6	180,000	7 ×8	180×120×180	390×385×205

Notices / 注意事项