

1. 1 / Descriptions

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

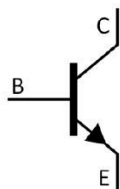
2. 2 / Features

High transition frequency, small collector output capacitance complementary pair.

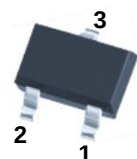
3. 3 / Applications

Audio frequency amplifier applications.

4. 4 / Equivalent Circuit



5. 5 / Pinning



PIN1 Emitter PIN 2 Base PIN 3 Collector

6. 6 / Marking

h_{FE} Classifications Symbol	N	P	Q
h_{FE} Range	56 120	82 180	120 270
Marking	HAN	HNP	HNQ

绝对最大额定值 (Ta=25℃)

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}	5.0	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	

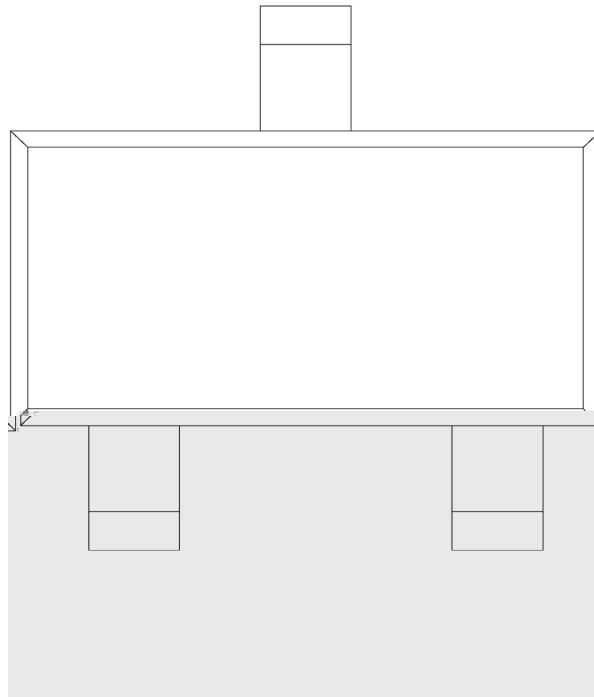
电 气 特 性 (Ta=25℃)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=50\mu A$	40			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=1.0mA$	25			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=50\mu A$	5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=24V$			0.5	μA
Emitter Base Cut-Off Current	I_{EBO}	$V_{EB}=3.0V$			0.5	μA
DC Current Gain	h_{FE}	$V_{CE}=6.0V$ $I_C=1.0mA$	56		270	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=10mA$ $I_B=1.0mA$		0.1	0.3	V
Transition Frequency	f_T	$V_{CE}=6.0V$ $I_C=1.0mA$ $f=100MHz$	150	300		MHz
Collector output capacitance	C_{ob}	$V_{CB}=6.0V$ $I_E=0$ $f=1.0MHz$		1.3	2.2	pF

2SC4098

2SC4098 DATA SHEET

1. 符号 / Marking Instructions



H

A

N h_{FE}

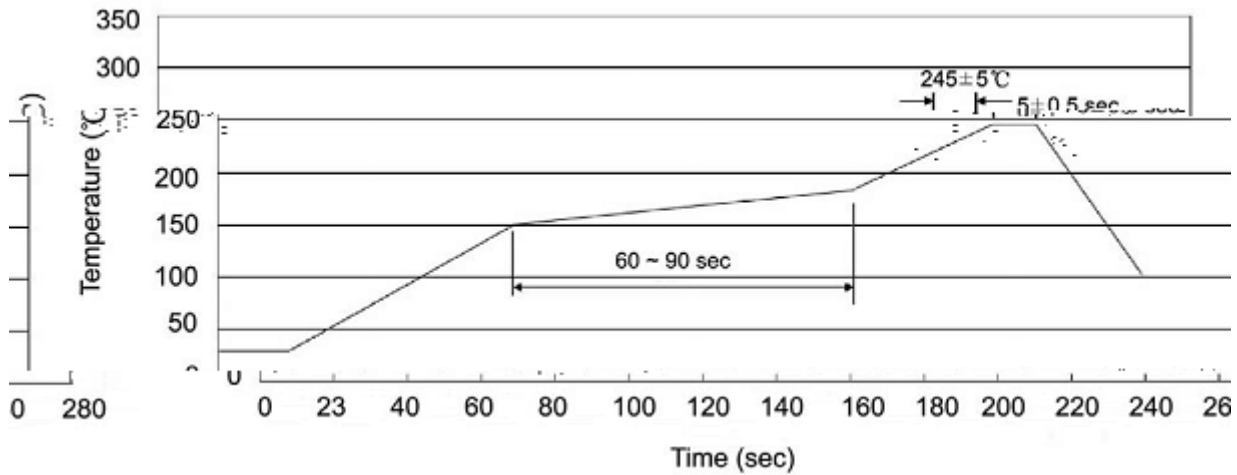
Note:

H: Company Code.

A: Product Type.

N h_{FE}

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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

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	只 卷盘	卷盘 盒	只 盒	盒 箱	只 箱	盒	箱	

Notices