

## 产品特点

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

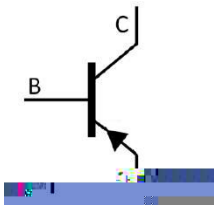
## 主要参数

1.  $h_{FE}$  2SD1819A  
 High  $h_{FE}$ , complements the 2SD1819A.

## 应用

General amplification.

## 封装与引脚



## 封装与引脚



PIN1 Emitter PIN 2 Base PIN 3 Collector

## 性能参数

| $h_{FE}$ Classifications<br>Symbol | Q       | R       | S       |
|------------------------------------|---------|---------|---------|
| $h_{FE}$ Range                     | 160 260 | 210 340 | 290 460 |
| Marking                            | BHQ     | BHR     | BHS     |

### 静态参数

J

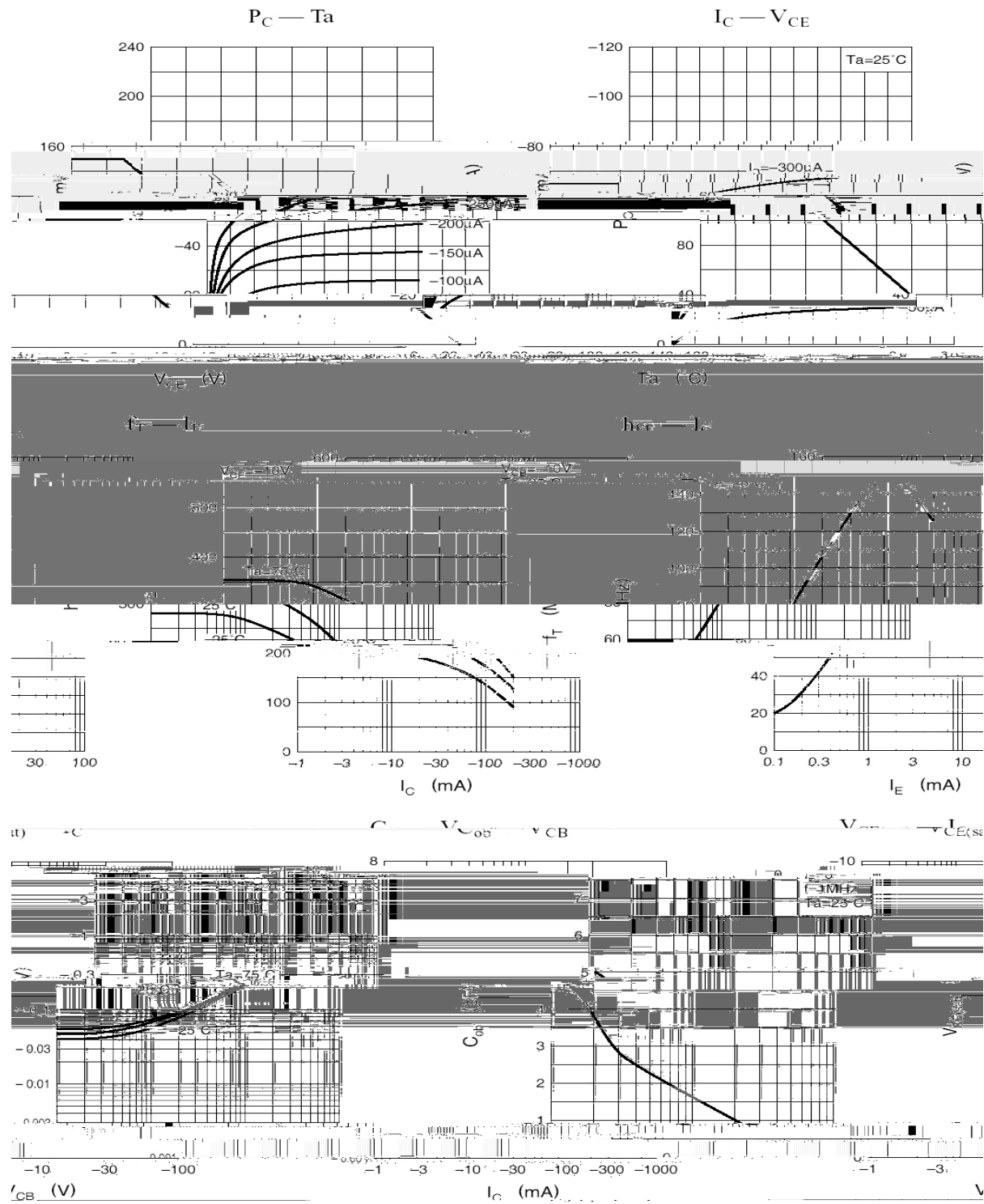
| Parameter                             | Symbol    | Rating  | Unit |
|---------------------------------------|-----------|---------|------|
| Collector to Base Voltage             | $V_{CBO}$ | -45     | V    |
| Collector to Emitter Voltage          | $V_{CEO}$ | -45     | V    |
| Emitter to Base Voltage               | $V_{EBO}$ | -7.0    | V    |
| Collector Current - Continuous        | $I_C$     | -100    | mA   |
| Collector Current – Continuous(Pulse) | $I_{CP}$  | -200    | mA   |
| Collector Power Dissipation           | $P_C$     | 150     | mW   |
| Junction Temperature                  | $T_j$     | 150     |      |
| Storage Temperature Range             | $T_{stg}$ | -55 150 |      |

### 动态参数

J

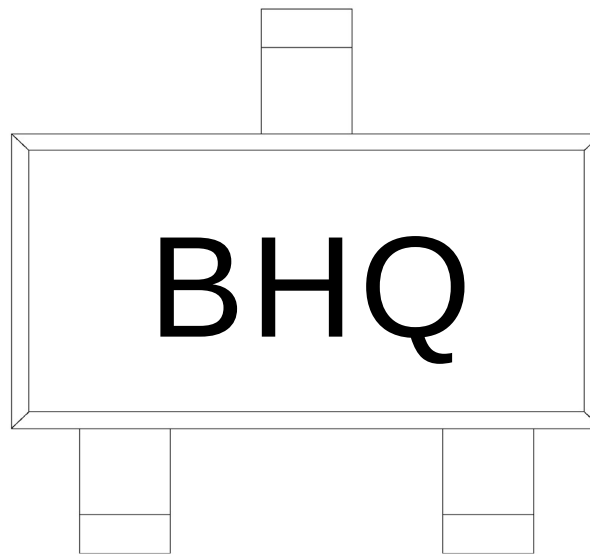
| Parameter                               | Symbol        | Test Conditions                                                 | Min  | Typ  | Max  | Unit |
|-----------------------------------------|---------------|-----------------------------------------------------------------|------|------|------|------|
| Collector to Base Breakdown Voltage     | $V_{CBO}$     | $I_C = -10\text{ A}$ $I_E = 0$                                  | -45  |      |      | V    |
| Collector to Emitter Breakdown Voltage  | $V_{CEO}$     | $I_C = -2.0\text{mA}$ $I_B = 0$                                 | -45  |      |      | V    |
| Emitter to Base Breakdown Voltage       | $V_{EBO}$     | $I_E = -10\text{ A}$ $I_C = 0$                                  | -7.0 |      |      | V    |
| Collector Cut-Off Current               | $I_{CBO}$     | $V_{CB} = -20\text{V}$ $I_E = 0$                                |      |      | -0.1 | A    |
| Emitter Base Cut-Off Current            | $I_{EBO}$     | $V_{CE} = -10\text{V}$ $I_B = 0$                                |      |      | -100 | A    |
| DC Current Gain                         | $h_{FE}$      | $V_{CE} = -10\text{V}$ $I_C = -2.0\text{mA}$                    | 160  |      | 460  |      |
| Collector to Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C = -100\text{mA}$ $I_B = -10\text{mA}$                      |      | -0.3 | -0.5 | V    |
| Transition Frequency                    | $f_T$         | $V_{Cb} = -10\text{V}$ $f = 200\text{MHz}$ $I_E = 1.0\text{mA}$ |      | 80   |      | MHz  |
| Collector output capacitance            | $C_{ob}$      | $V_{CB} = -10\text{V}$ $f = 1.0\text{MHz}$ $I_E = 0$            |      | 2.7  |      | pF   |

三极管





1. 1



B

H

Q  $h_{FE}$

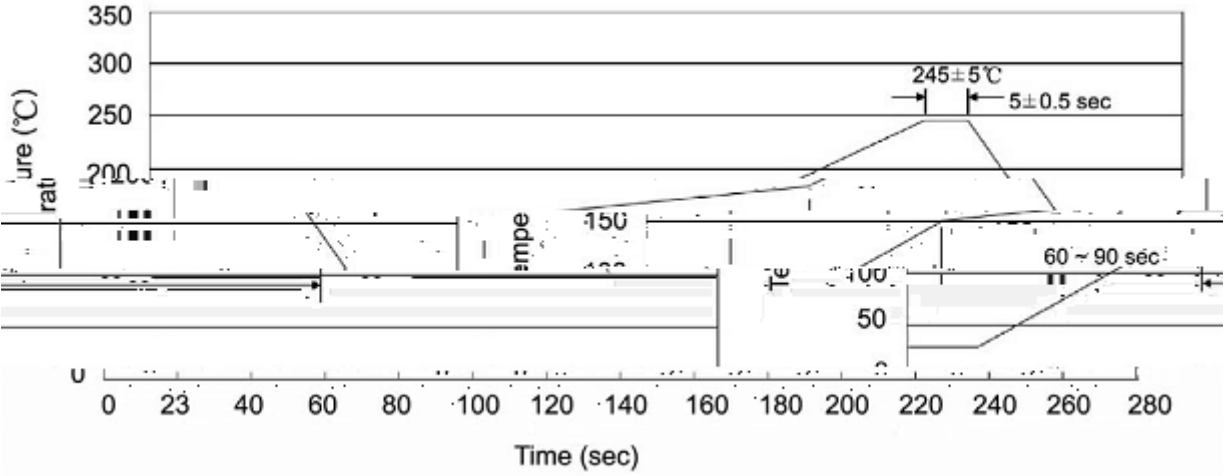
Note:

B: Product Type.

H: Company Code.

Q  $h_{FE}$  Classifications Symbol

Whp shudwxuh Suriloh i ru LU Uhior z Vroghulqj+Se0l uhh,



Note:

- 1

25 150

60 90sec;
- 2

245±5

5±0.5sec;
- 3

2 10 /sec.
- 1.Preheating:25~150

, Time:60~90sec.
- 2.Peak Temp.:245±5

, Duration:5±0.5sec.
3. Cooling Speed: 2~10

/sec.

4 0 q 1 Y T

260±5

10±1 sec.

Temp.:260±5

Time:10±1 sec

9 E 1

/ REEL

| Package Type<br>封装形式 | Units 包装数量 |      |     |     |     | Dimension 包装尺寸 (unit: mm <sup>3</sup> ) |   |   |
|----------------------|------------|------|-----|-----|-----|-----------------------------------------|---|---|
|                      | 只 卷盘       | 卷盘 盒 | 只 盒 | 盒 箱 | 只 箱 |                                         | 盒 | 箱 |
|                      |            |      |     |     |     |                                         |   |   |

ä v L Q