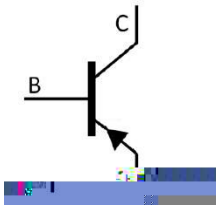
VRW0656 ṂṂ Ł SQS ÆṀ ч s ǁ ˥ Silicon PNP transistor in a SOT-323 Plastic Package.

ﻭ ɔ ǁ ´ ǁ ɔ ǁ ƶ ı ت ⁼ я ں Ӊ ı љ 5VF4:74Z Й ´
Large $I_c$ low $V_{ce(sat)}$



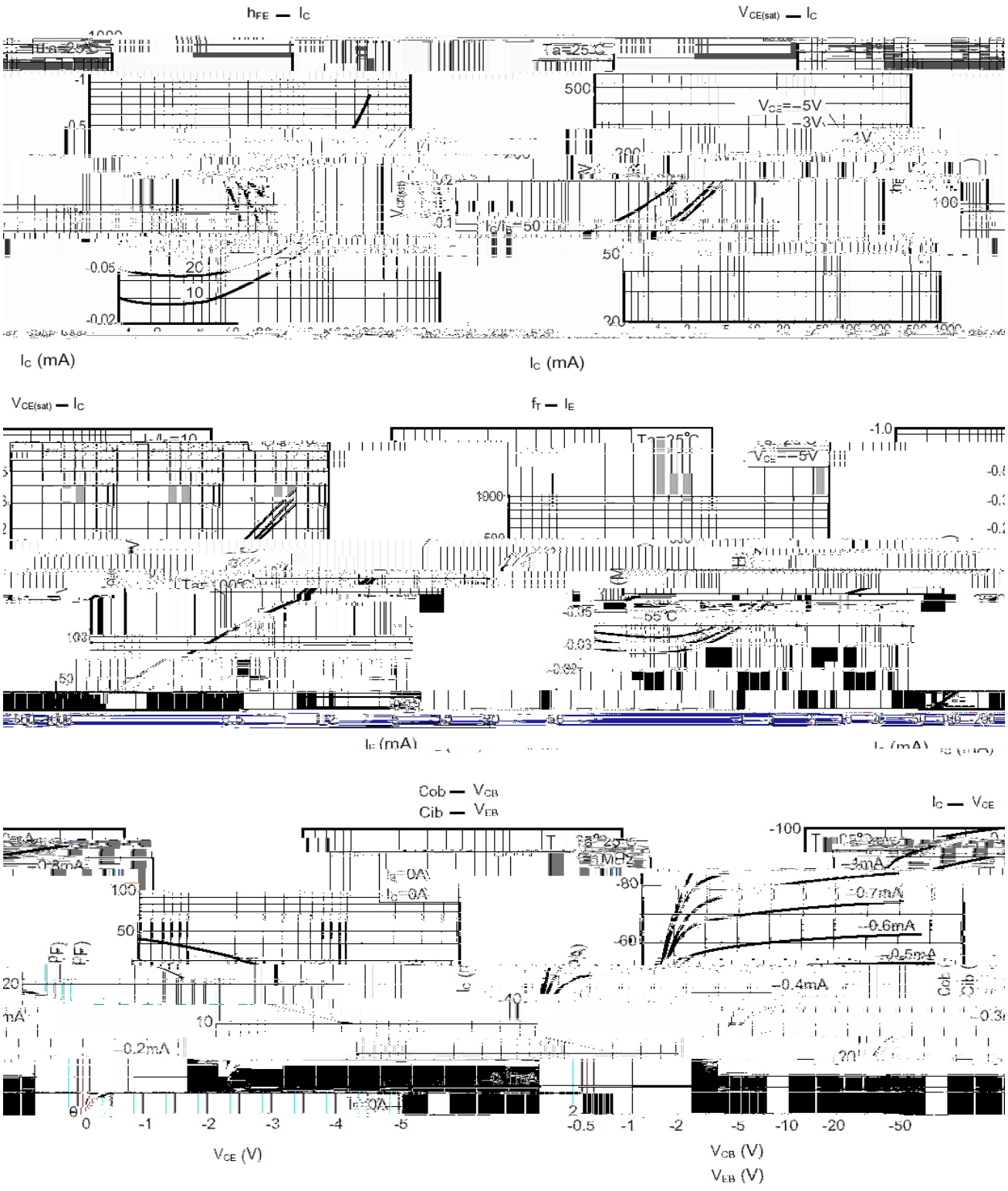
## ώ ₫ Ǝ Ặ / Absolute Maximum Ratings(Ta=25 ɹ )

| v ̈Ω<br>Parameter | ϟ N<br>Symbol | ̈Ω Ö<br>Rating | D Ꮋ<br>Unit |
|---|---|---|---|
| Collector to Base Voltage | $V_{CBO}$ | -40 | V |
| Collector to Emitter Voltage | $V_{CEO}$ | -32 | V |
| Emitter to Base Voltage | $V_{EBO}$ | -5.0 | V |
| Collector Current - Continuous | $I_C$ | -500 | mA |
| Collector Power Dissipation | $P_C$ | 200 | mW |
| Junction Temperature | $T_j$ | 150 | |
| Storage Temperature Range | $T_{stg}$ | -55 150 | |

## ≠ ∧ Ǝ Ặ / Electrical Characteristics(Ta=25 ɹ )

| v ̈Ω<br>Parameter | ϟ N<br>Symbol | ⫫ ⁝ ⍑ ⍑<br>Test Conditions | ώ ṇ Ö<br>Min | Ɛ ʒ Ö<br>Typ | ώ ≠ Ö<br>Max | D Ꮋ<br>Unit |
|---|---|---|---|---|---|---|
| Collector to Base Breakdown Voltage | $V_{CBO}$ | $I_C$=-100μA | -40 | | | V |
| Collector to Emitter Breakdown Voltage | $V_{CEO}$ | $I_C$=-1.0mA | -32 | | | V |
| Emitter to Base Breakdown Voltage | $V_{EBO}$ | $I_E$=-100μA | -5.0 | | | V |
| Collector Cut-Off Current | $I_{CBO}$ | $V_{CB}$=-20V | | | -1.0 | μA |
| Emitter Base Cut-Off Current | $I_{EBO}$ | $V_{EB}$=-4.0V | | | -1.0 | μA |
| DC Current Gain | $h_{FE}$ | $V_{CE}$=-3.0V $I_C$=-10mA | 82 | | 390 | |
| Collector to Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C$=-100mA $I_B$=-10mA | | | -0.4 | V |
| Transition Frequency | $f_T$ | $V_{CE}$=-5.0V $I_E$=20mA f=100MHz | | 200 | | MHz |
| Collector output capacitance | $C_{ob}$ | $V_{CB}$=-10V $I_E$=0 f=1.0MHz | | 7.0 | | pF |

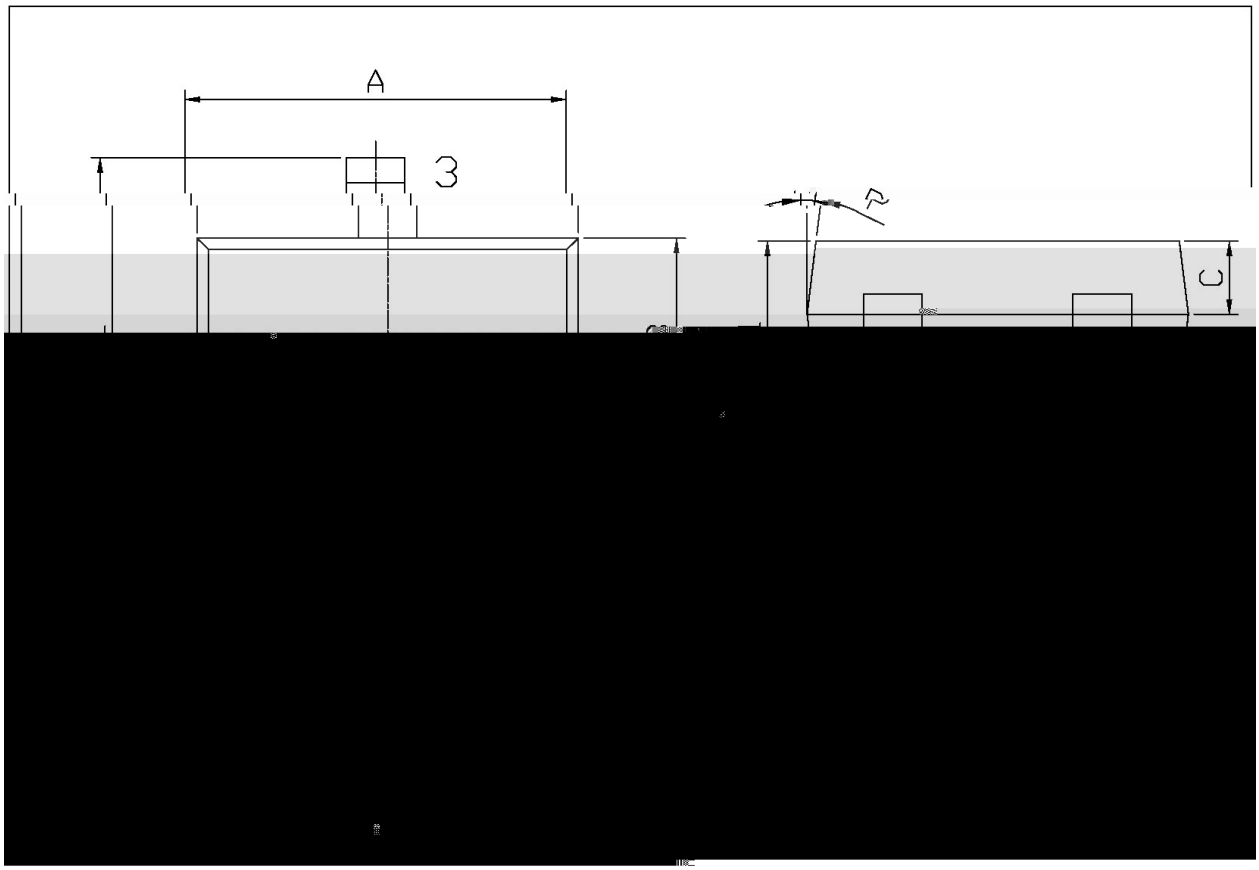
## ⁝ ƎÃ´E ⅵ ƒ / Electrical Characteristic Curve



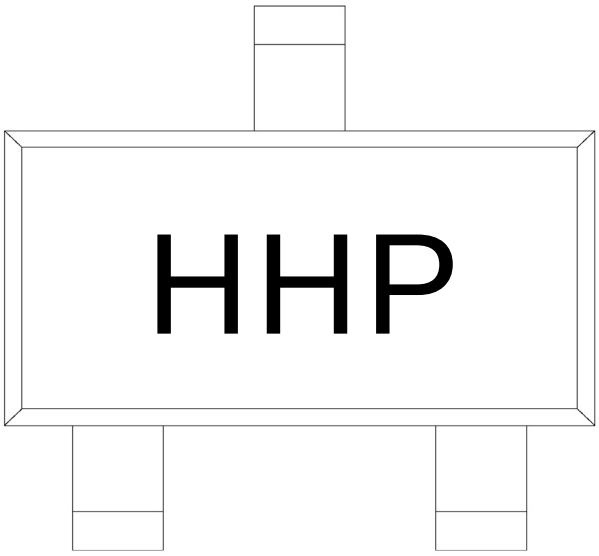
## ᵘ ĖÒĻ ʃ / Package Dimensions

SOT-323

单位：mm



## Ł. Ľ˝Ω / Marking Instructions




ب ˝ χ

H χ ⌘ ʒ ᴵ Ɒ

H χ ⌘ ʒ ᴺ Ɒ

P χ ⌘ $h_{FE}$ ʿ ᶠ Ɒ

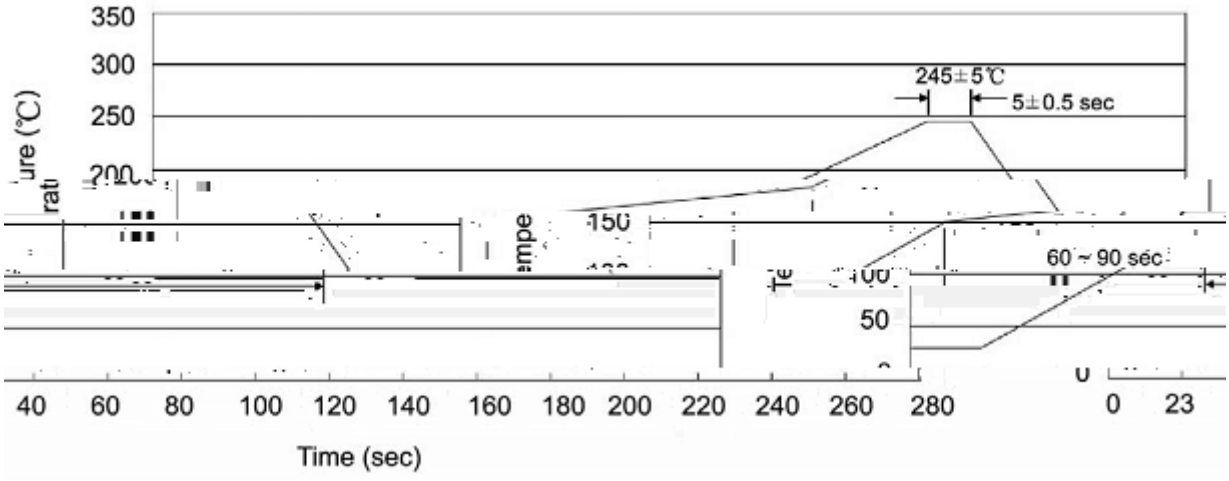
Note:

H: Company Code.

H: Product Type.

P χ $h_{FE}$ Classifications Symbol

## ЖЋ ʃ ╕ ẘ´E ⅵ ʃ (ώ ᴈ) / Wh p shudwxuh Suril oh i ru LU Uhi r z Vr ghulq j+Se0luhh,




ᴗ ˝ χ

1 Ĺ ♬ □ ẙ 25 Ќ 150 ɬ ı ˋH ᴈ 60 Ќ 90sec;

2 Š Ë □ ẙ 245 ° 5 ɬ ı ˋH ᴈ ˋY ⅵ ㎛ 5 ° 0.5sec;

3 ì ˙ ⅵ ˛ ɔ ѡ ẙ ㎛ 2 Ќ 10 ɬ /sec.

Note:

1.Preheating:25~150 ɬ , Time:60~90sec.

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

3. Cooling Speed: 2~10 ɬ /sec.

## ⅵ ŭ ɋ ˉ ˋY Ţ / Resistance to Soldering Heat Test Conditions

□ ẙ χ 260 ° 5 ɬ ˋH ᴈ χ 10 ° 1 sec. Temp.:260±5 Time:10±1 sec

## ɒ Ŀ ≮ — / Packaging SPEC.

ɔ ` ɣ Ŀ / REEL

| Package Type 封装形式 | Units 包装数量 | | | | | Dimension 包装尺寸 (unit: $mm^3$) | | |
|---|---|---|---|---|---|---|---|---|
| | Units/Reel 只/卷盘 | Reels/Inner Box 卷盘/盒 | Units/Inner Box 只/盒 | Inner Boxes/Outer Box 盒/箱 | Units/Outer Box 只/箱 | Reel | Inner Box 盒 | Outer Box 箱 |
| SOT-323 | 3,000 | 10 | 30,000 | 6 | 180,000 | 7 ×8 | 180×120×180 | 390×385×205 |

## ä ⅴ ŗ Ω / Notices