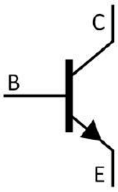
SOT-323 NPN Silicon NPN transistor in



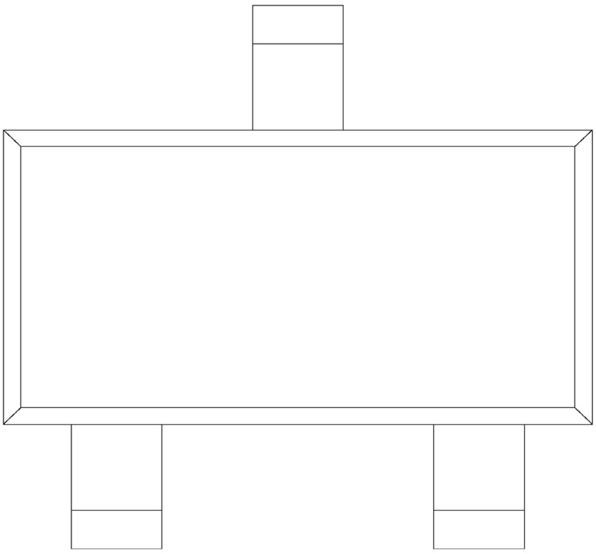
## [illegible]

| 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 | |

## [illegible]

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Collector to Base Breakdown Voltage | $V_{CBO}$ | $I_C$=50μA | 40 | | | V |
| Collector to Emitter Breakdown Voltage | $V_{CEO}$ | $I_C$=1.0mA | 25 | | | V |
| Emitter to Base Breakdown Voltage | $V_{EBO}$ | $I_E$=50μA | 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<br>f=100MHz | 150 | 300 | | MHz |
| Collector output capacitance | $C_{ob}$ | $V_{CB}$=6.0V $I_E$=0<br>f=1.0MHz | | 1.3 | 2.2 | pF |

## Ł.  L˝Ω



H

A

N $h_{FE}$

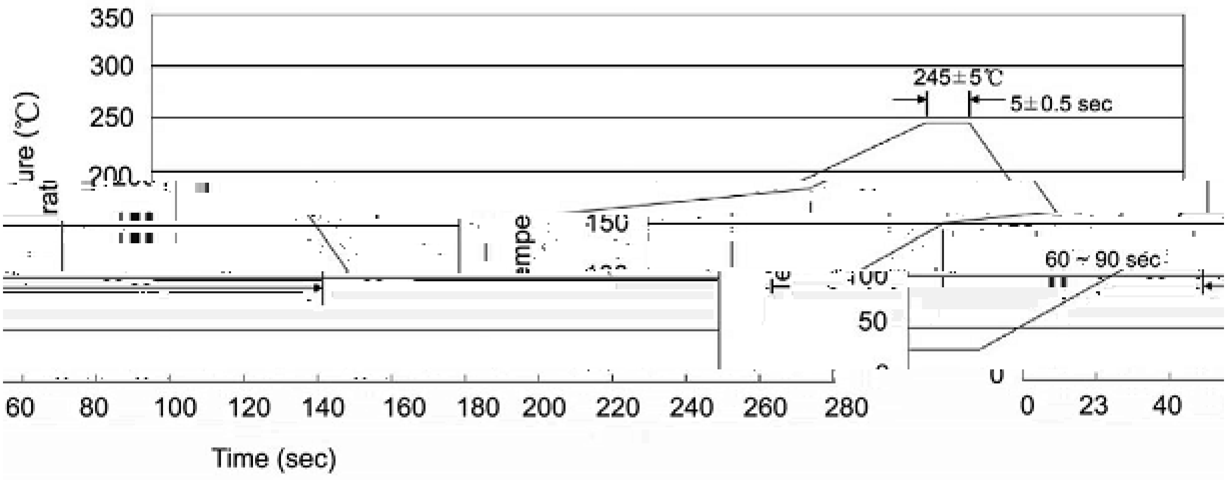
Note:

H: Company Code.

A: Product Type.

N $h_{FE}$

## ṫh ʃ ╗ ẘ΄E Ⅵ ƒ ῷĠ Whpshudwxuh Surilőh iru LU Uhiorz Vroghulqj+Se0Iuhh,



| | |
|---|---|
| | 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. |

## ⅎ ü q ̄ ˋY Ţ

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

## ɒ ⊏ ⋞—

/ REEL

| Package Type<br>封装形式 | Units 包装数量 | | | | | Dimension 包装尺寸 (unit: mm$^3$) | | |
|---|---|---|---|---|---|---|---|---|
| | Units/Reel<br>只/卷盘 | Reels/Inner Box<br>卷盘/盒 | Units/Inner Box<br>只/盒 | Inner Boxes/Outer Box<br>盒/箱 | Units/Outer Box<br>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 |

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