## / Descriptions

SOT-23 PNP Silicon PNP transistor in a SOT-23 Plastic Package.

## / Features

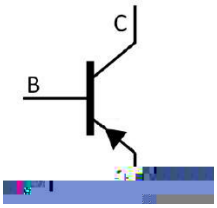
300mA

high current gain at collector currents to 300 mA.

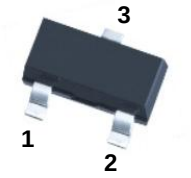
## / Applications

General purpose amplifier.

## / Equivalent Circuit




## / Pinning




PIN1 Base PIN 2 Emitter PIN 3 Collector

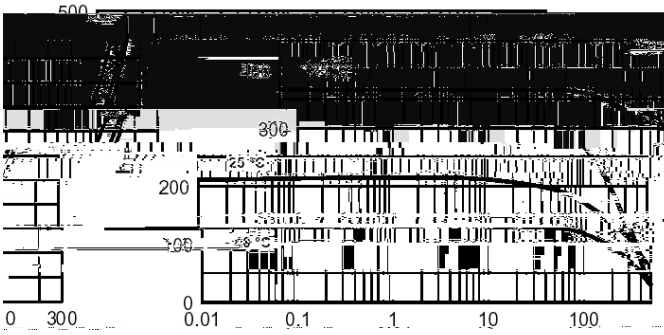
## / $h_{FE}$ Classifications & Marking

| | |
|---|---|
| $h_{FE}$ Range | 130 630 |
| Marking | HBK |

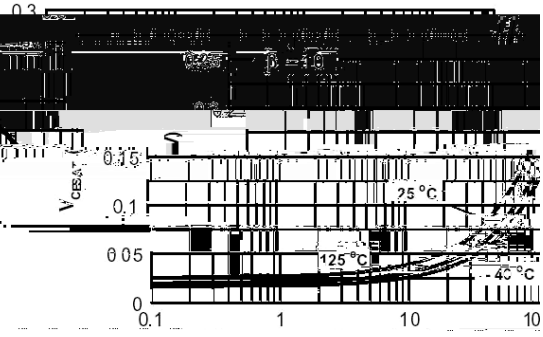
| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Collector to Base Voltage | $V_{CBO}$ | -45 | V |
| Collector to Emitter Voltage | $V_{CEO}$ | -45 | V |

## / Electrical Characteristic Curve

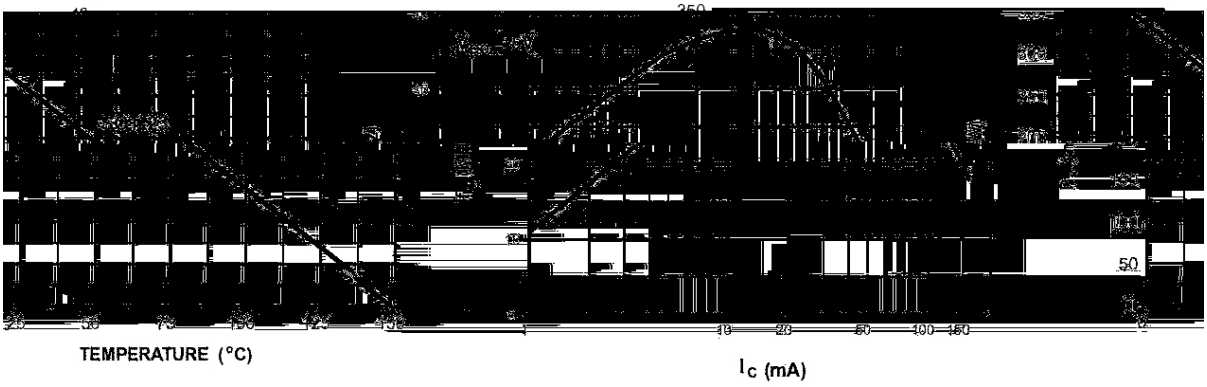
$h_{FE}$ — $I_C$



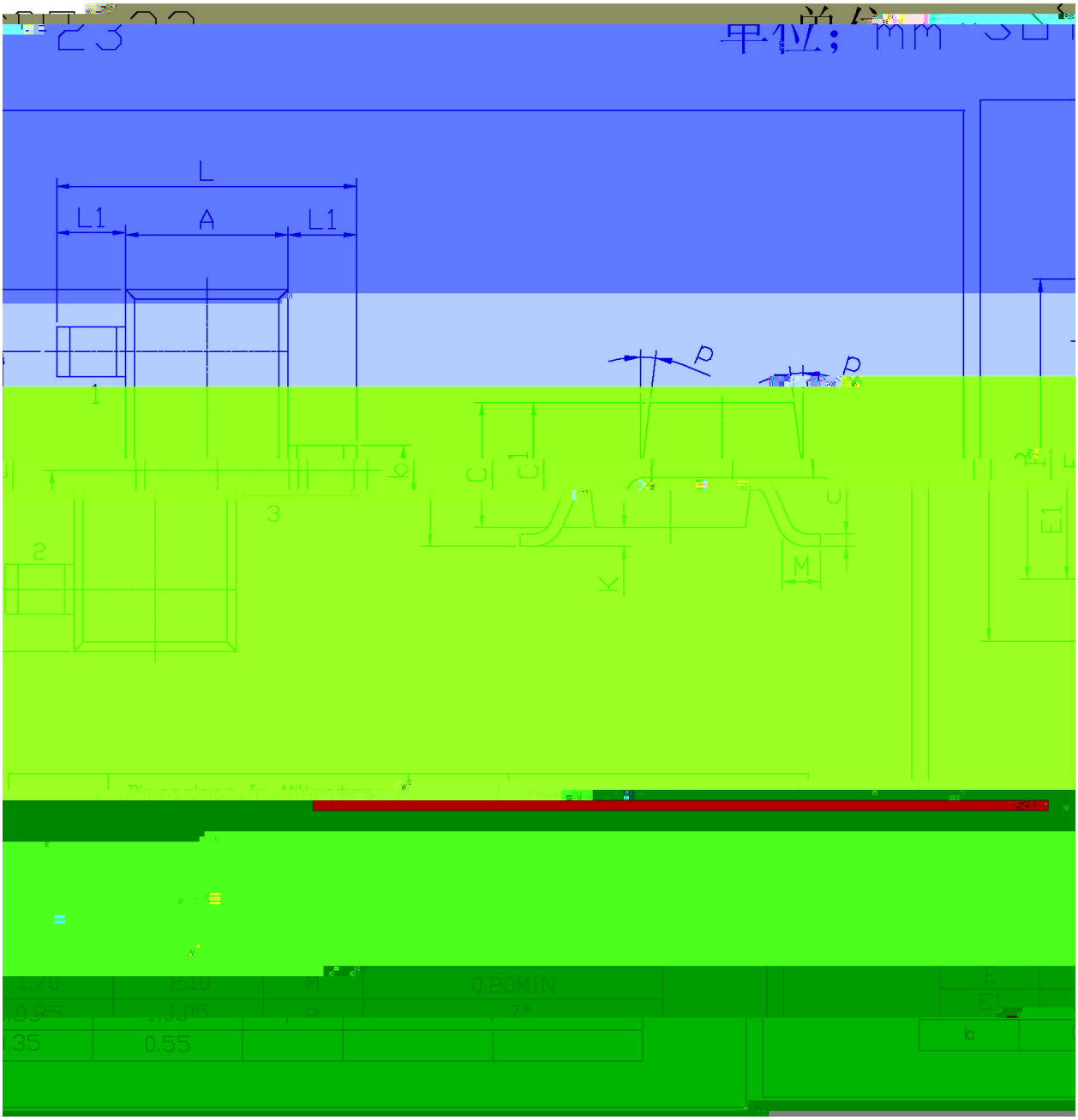

$V_{CESAT}$ — $I_C$



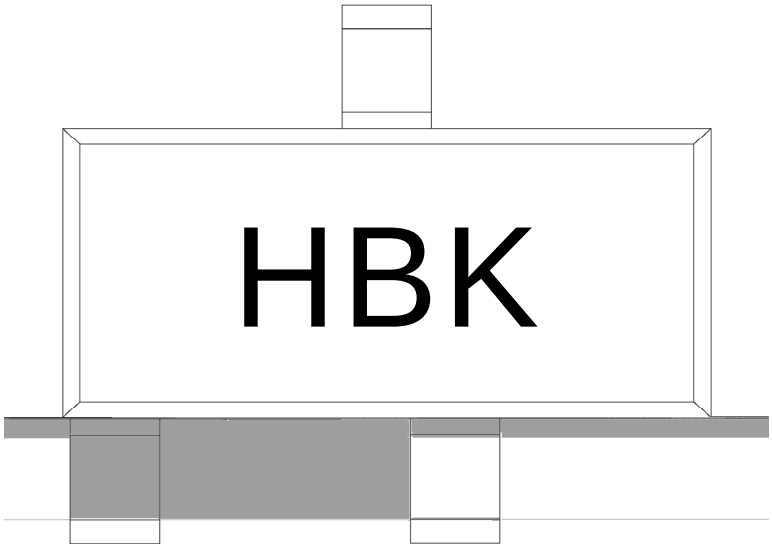

$f_T$ — $I_C$



## / Package Dimensions



## / Marking Instructions




H

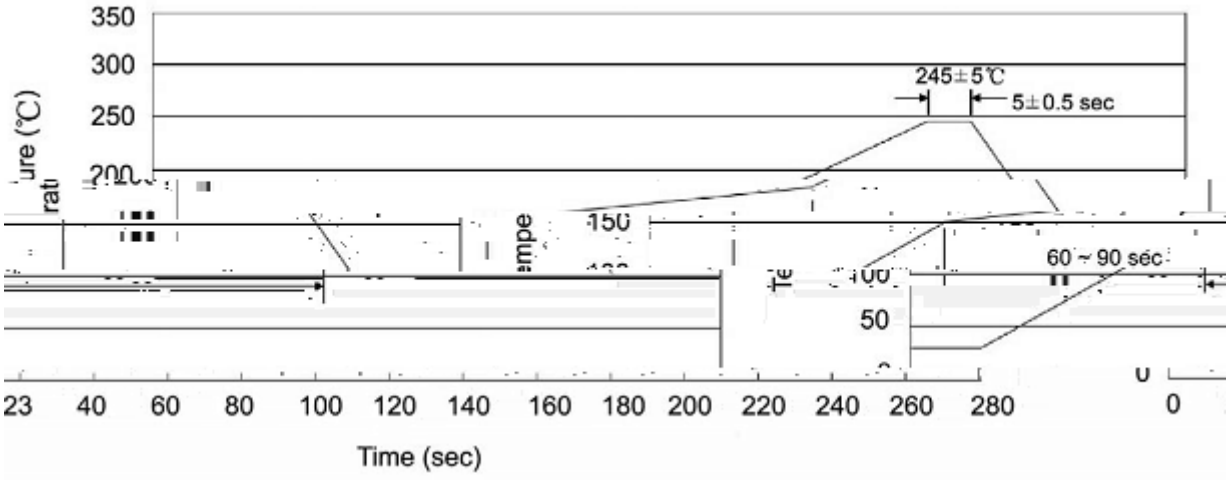
BK

Note:

H: Company Code

BK: Product Type Code

## ( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)




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 | 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-23 | 3,000 | 10 | 30,000 | 6 | 180,000 | 7 ×8 | 180×120×180 | 390×385×205 |

## / Notices