## / Descriptions

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

## / Features

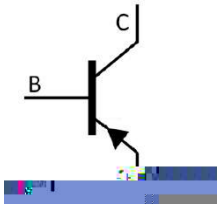
2SC1623

Complementary pair with 2SC1623.

## / Applications

Audio frequency amplifier application.

## / Equivalent Circuit




## / Pinning




PIN1 Base PIN 2 Emitter PIN 3 Collector

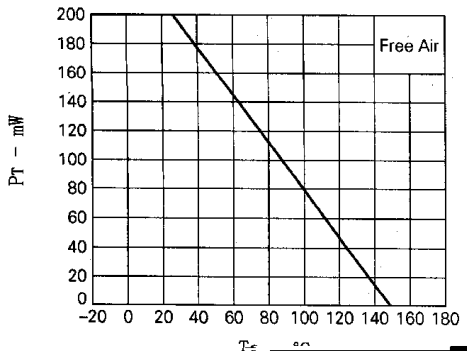
## / $h_{FE}$ Classifications & Marking

| $h_{FE}$ Classifications Symbol | O | Y | G | L |
|---|---|---|---|---|
| $h_{FE}$ Range | 90 180 | 135 270 | 200 400 | 300 600 |
| Marking | HM4 | HM5 | M6H | HM7 |

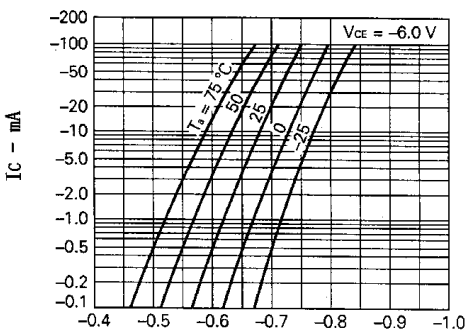
| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Collector to Base Voltage | $V_{CBO}$ | -60 | V |
| Collector to Emitter Voltage | $V_{CEO}$ | -50 | V |
| Emitter to Base Voltage | $V_{EBO}$ | -5.0 | V |
| Collector Current | $I_C$ | -100 | mA |
| Collector Power Dissipation | $P_C$ | 200 | mW |
| Junction Temperature | $T_j$ | 150 | |
| Storage Temperature Range | $T_{stg}$ | -55 150 | |

## / Electrical Characteristic Curve

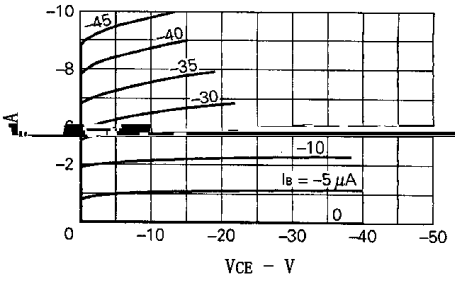
PT – Ta



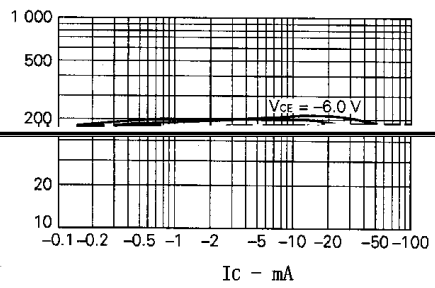

IC – VBE



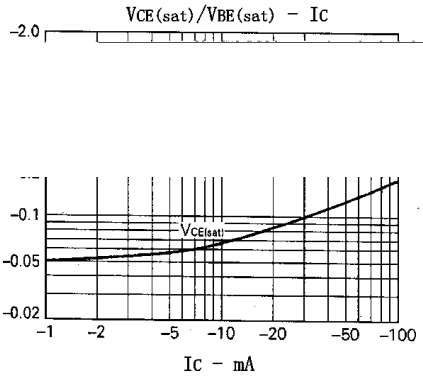

IC – VCE



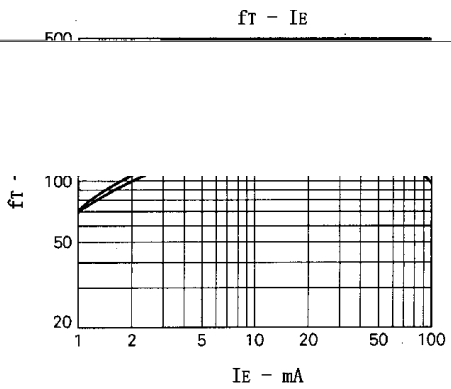

hFE – IC



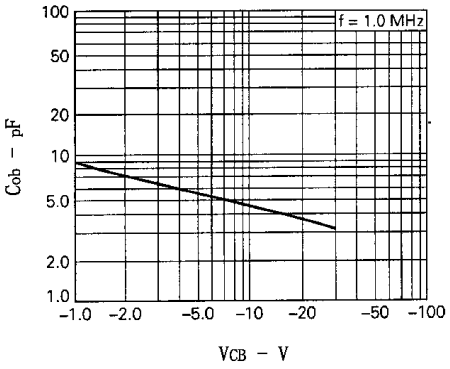

VCE(sat)/VBE(sat) – IC




fT – IE

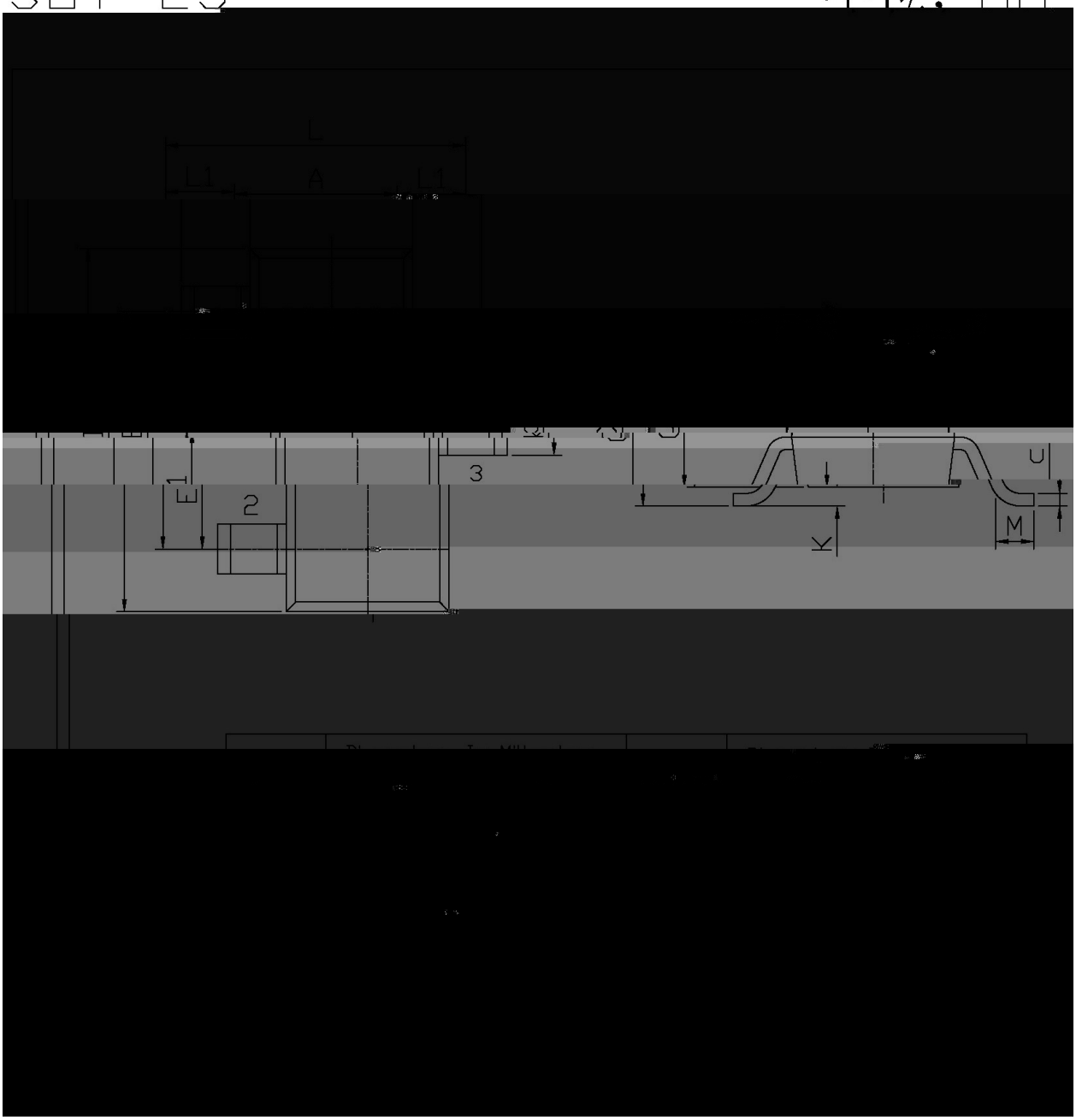



Cob – VCB

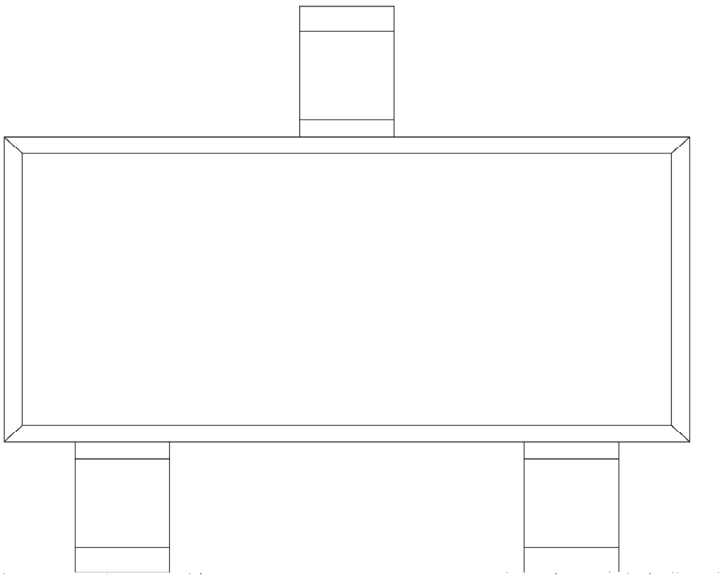


## / Package Dimensions

SOT-23 单位：mm



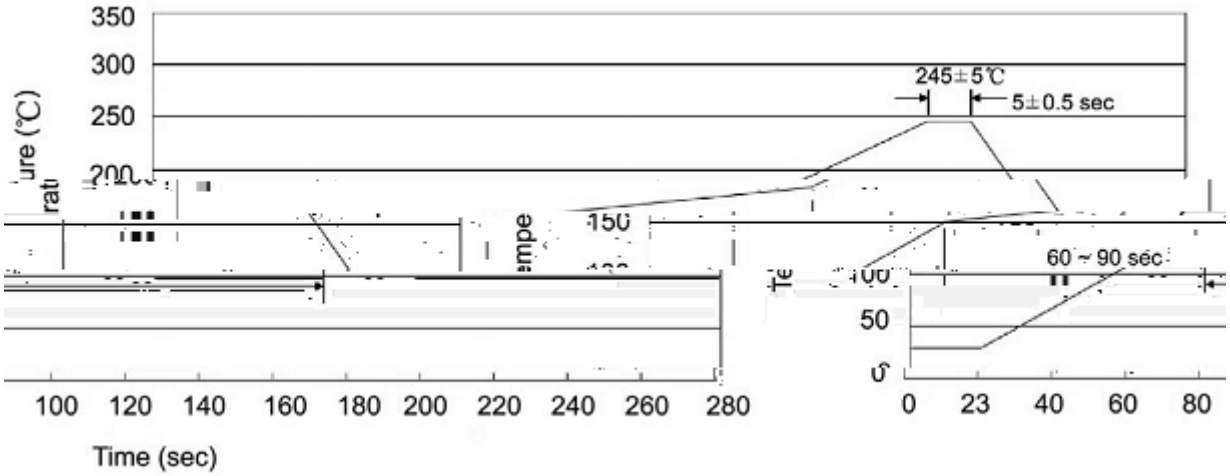
## / Marking Instructions



H

M4

## ( ) / 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 mm³) |
|---|---|---|---|---|---|---|---|---|
| | / | / | / | / | 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 |