

/ Descriptions

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

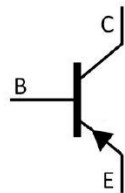
/ Features

$P_C$  , $h_{FE}$  , 9014M  
Hig  $P_C$  and  $I_C$ , excellent  $h_{FE}$  linearity, complementary pair with 9014M,HF Product.

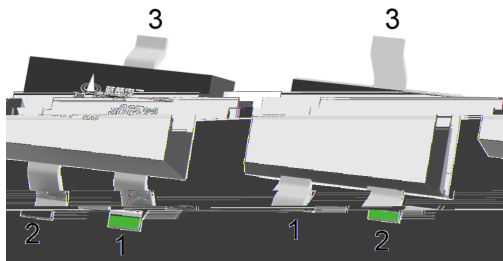
/ Applications

low frequency, low noise pre-amplifier.

/ Equivalent Circuit



/ Pinning



PIN1    Base            PIN 2    Emitter            PIN 3    Collector

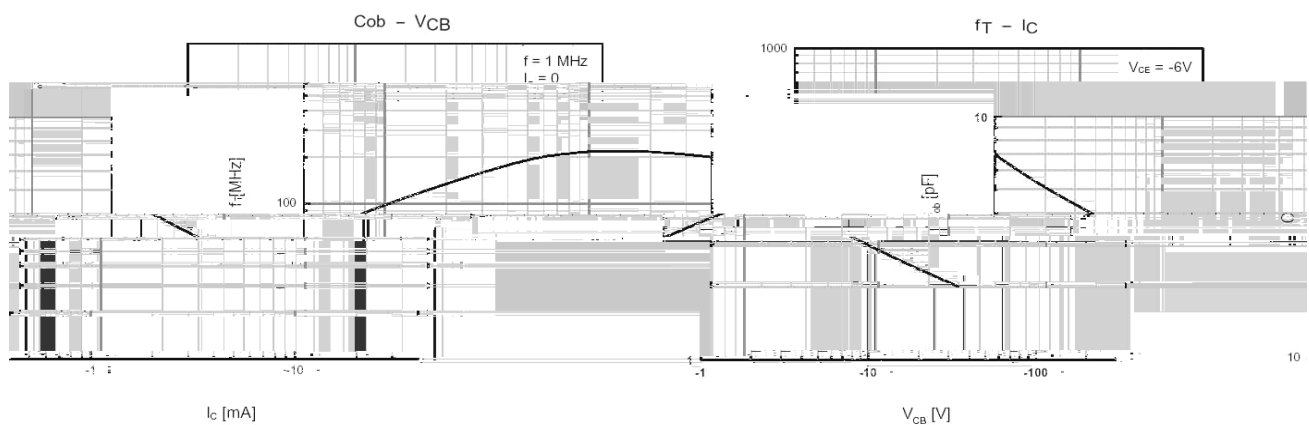
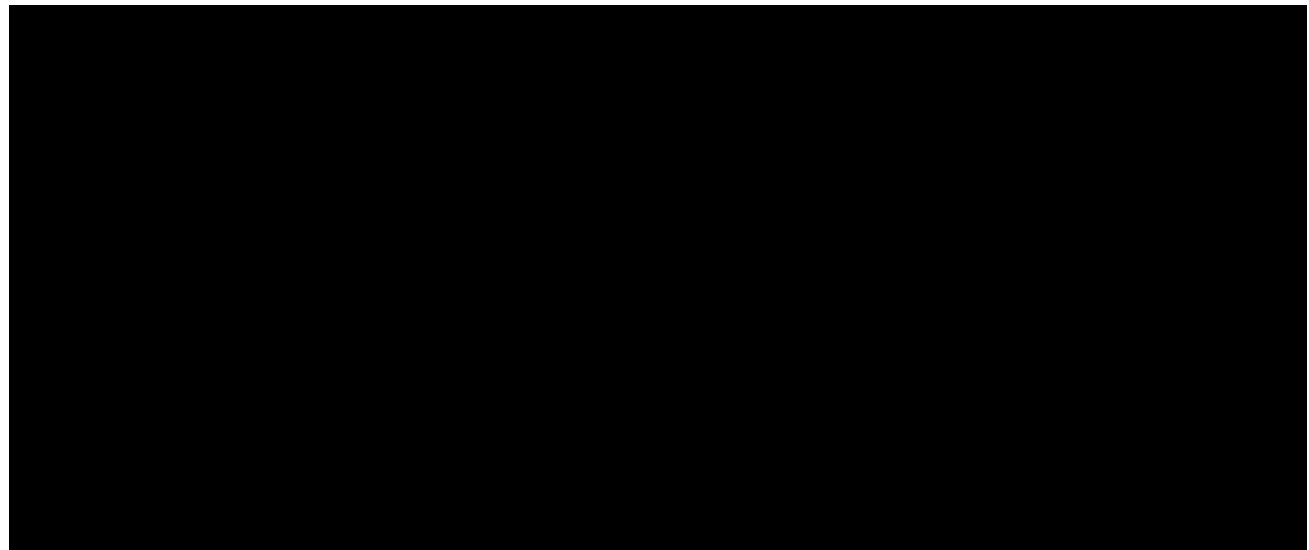
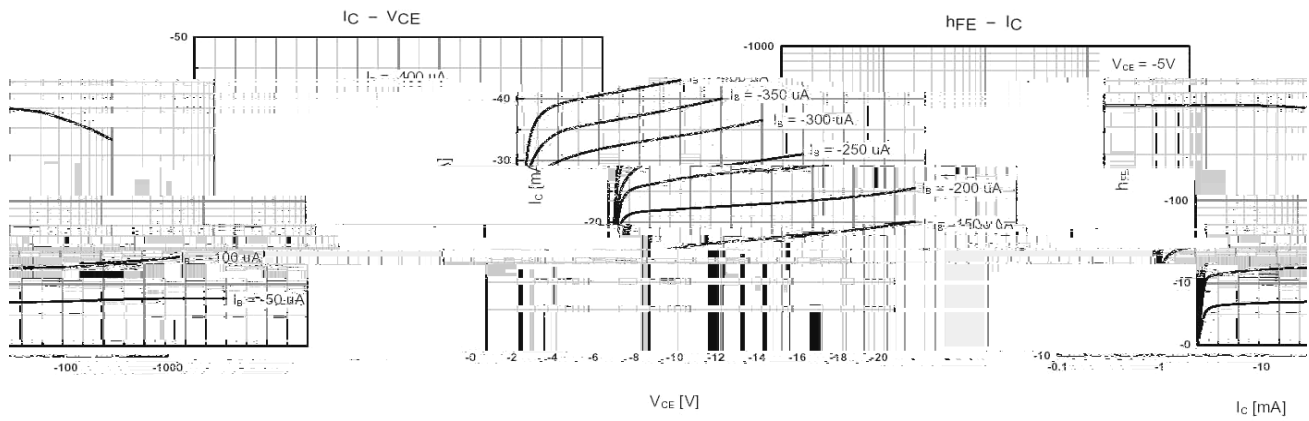
/  $h_{FE}$  Classifications & Marking

| $h_{FE}$ Classifications<br>Symbol | A        | B         | C         | D          |
|------------------------------------|----------|-----------|-----------|------------|
| $h_{FE}$ Range                     | 60   150 | 100   300 | 200   600 | 400   1000 |
| Marking                            | HM6A     | HM6B      | HM6C      | HM6D       |

| Parameter                    | Symbol    | Rating  | Unit |
|------------------------------|-----------|---------|------|
| Collector to Base Voltage    | $V_{CBO}$ | -50     | V    |
| Collector to Emitter Voltage | $V_{CEO}$ | -45     | 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 |      |

| Parameter                           | Symbol    | Test Conditions | Min | Typ | Max | Unit |
|-------------------------------------|-----------|-----------------|-----|-----|-----|------|
| Collector to Base Breakdown Voltage | $V_{CBO}$ |                 |     |     |     |      |

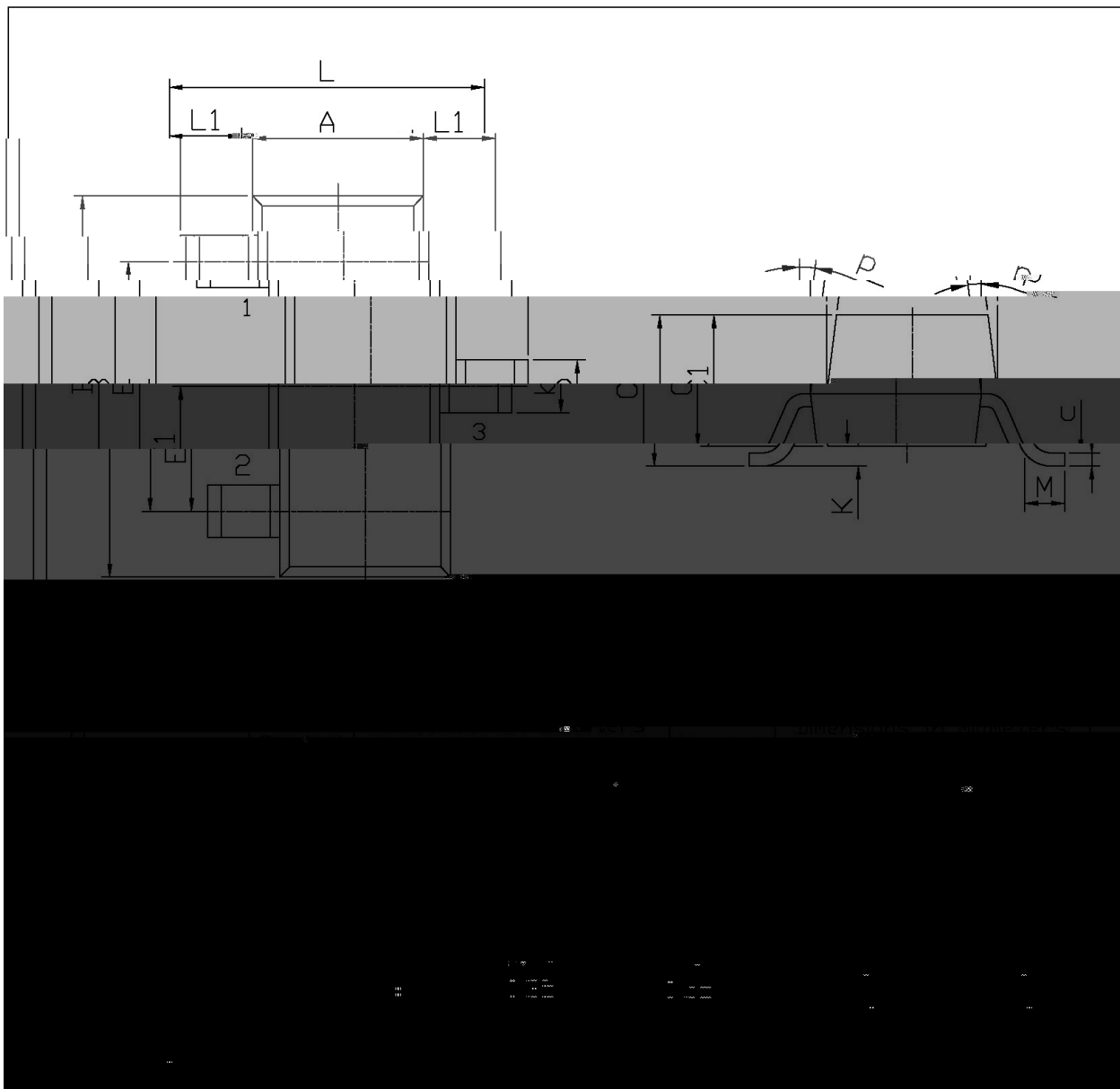
/ Electrical Characteristic Curve



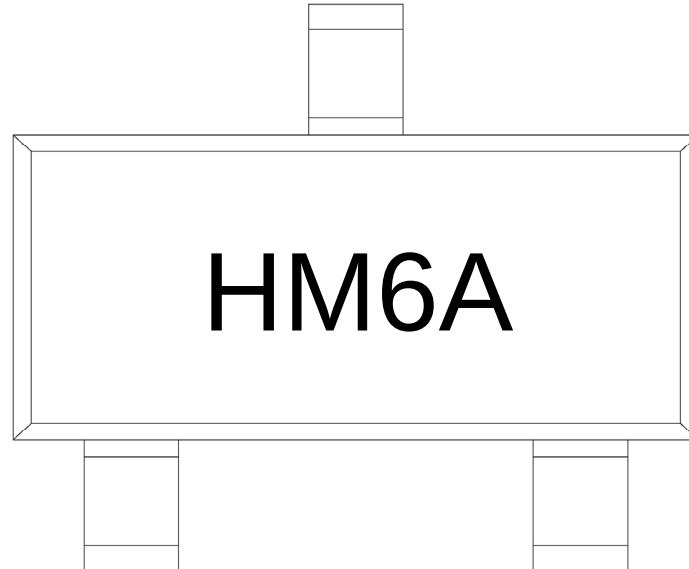
/ Package Dimensions

SOT-23

单位: mm



/ Marking Instructions



H

M6

A             $h_{FE}$

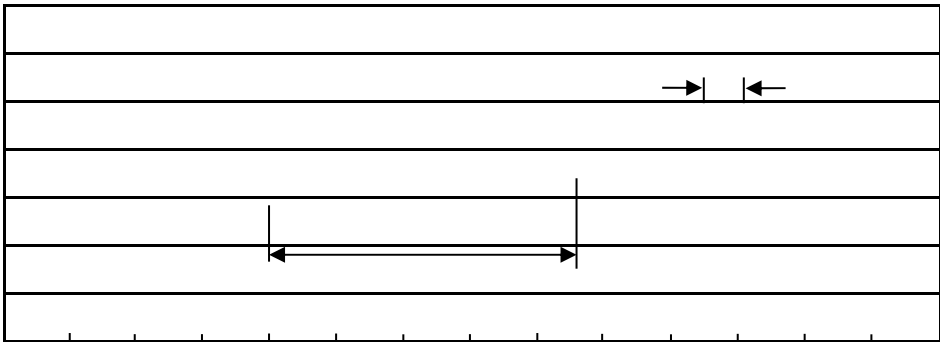
Note:

H            Company Code

M6          Product Type Code

A             $h_{FE}$  Classifications Symbol Code

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



Note:

- 1

150 180

60 90sec;

1.Preheating:150~180 , 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 <sup>3</sup> ) |             |             |
|--------------|-----------------|----------------------|----------------------|----------------------------|----------------------|-----------------------------------|-------------|-------------|
|              | Units/Reel<br>/ | Reels/Inner Box<br>/ | Units/Inner Box<br>/ | Inner Boxes/Outer Box<br>/ | Units/Outer Box<br>/ | Reel                              | Inner Box   | Outer Box   |
| SOT-23       | 3,000           | 10                   | 30,000               | 6                          | 180,000              | 7 ×8                              | 180×120×180 | 390×385×205 |

/ Notices