

### / Descriptions

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

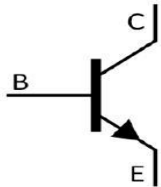
### / Features

, BC327M  
High current, complementary pair with BC327M.

### / Applications

General power amplifier and switching.

### / Equivalent Circuit



PIN1    Base                      PIN 2    Emitter                      PIN 3    Collector

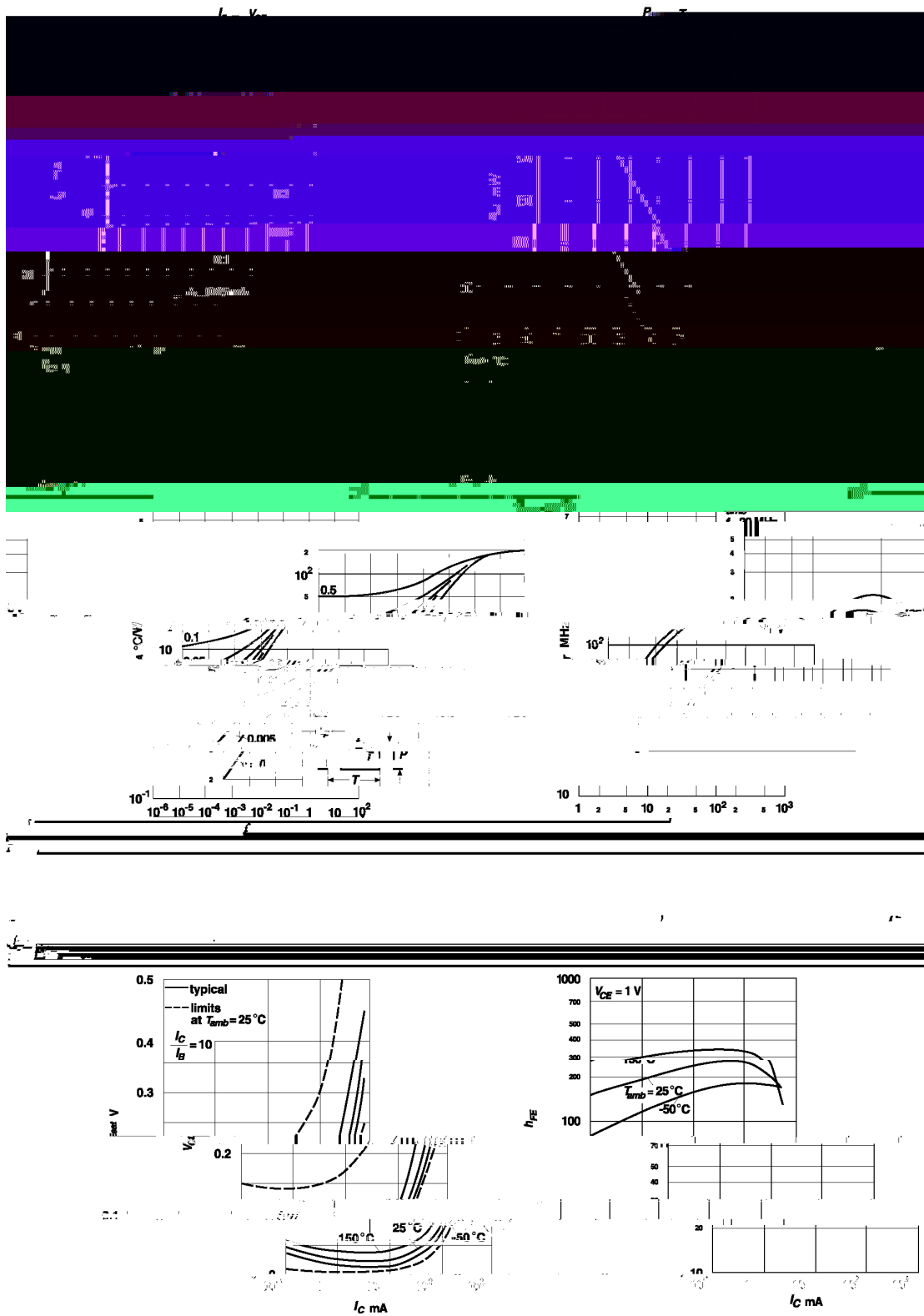
### / $h_{FE}$ Classifications & Marking

| 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 - Continuous | $I_C$     | 800      | mA   |
| Collector Emitter - Continuous | $I_E$     | -800     | mA   |
| Collector Power Dissipation    | $P_C$     | 300      | mW   |
| Junction Temperature           | $T_J$     | 150      |      |
| Storage Temperature Range      | $T_{stg}$ | -55° 150 |      |

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| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|-----------|--------|-----------------|-----|-----|-----|------|
|-----------|--------|-----------------|-----|-----|-----|------|

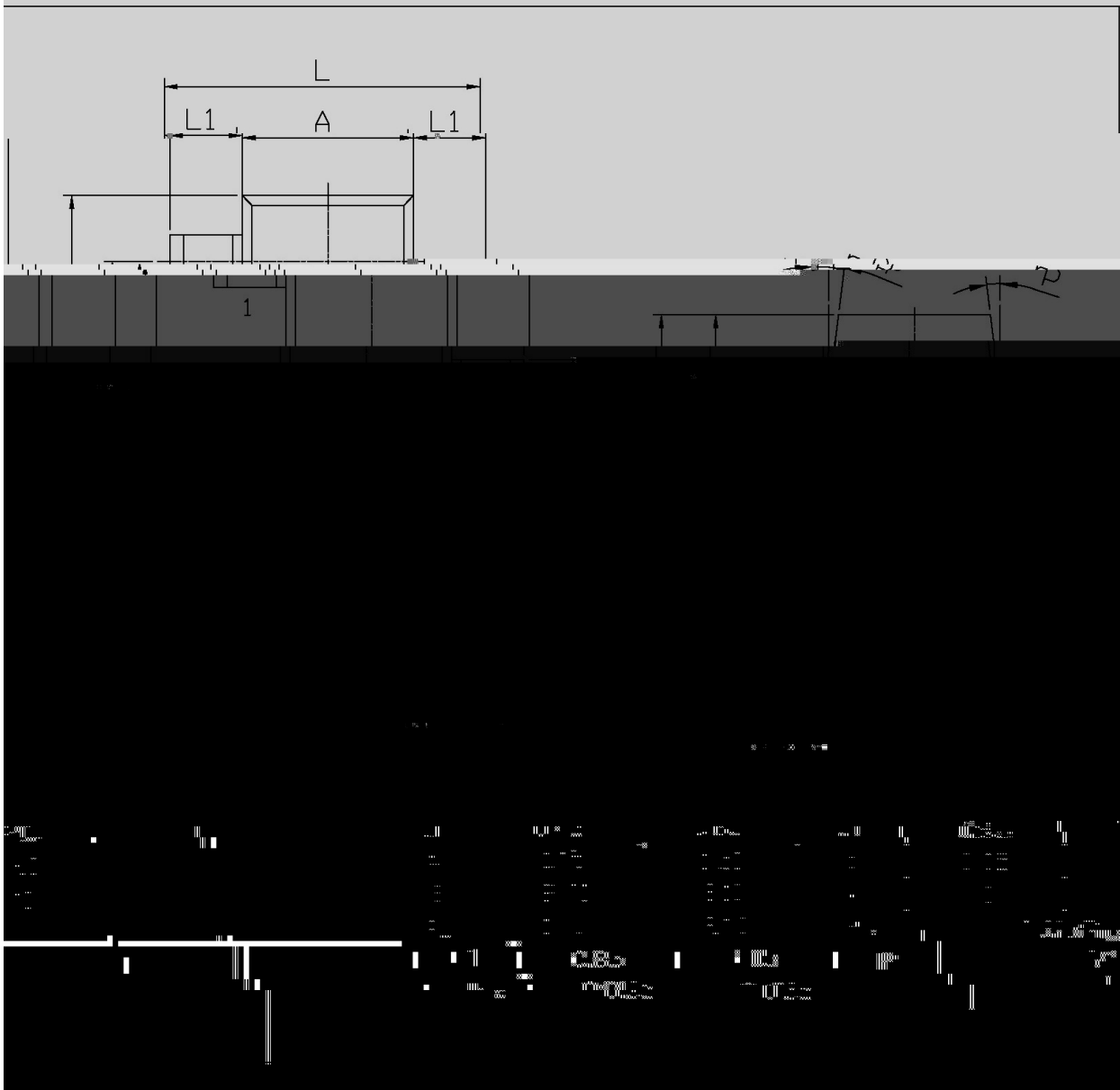
/ Electrical Characteristic Curve



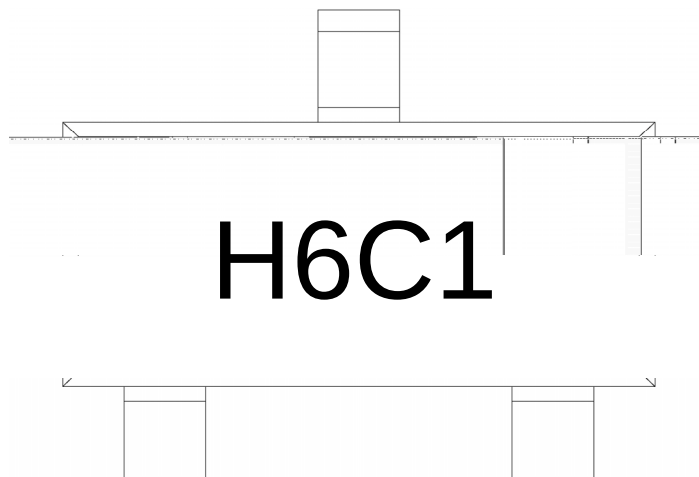
/ Package Dimensions

SOT-23

单位: mm



**/ Marking Instructions**



H

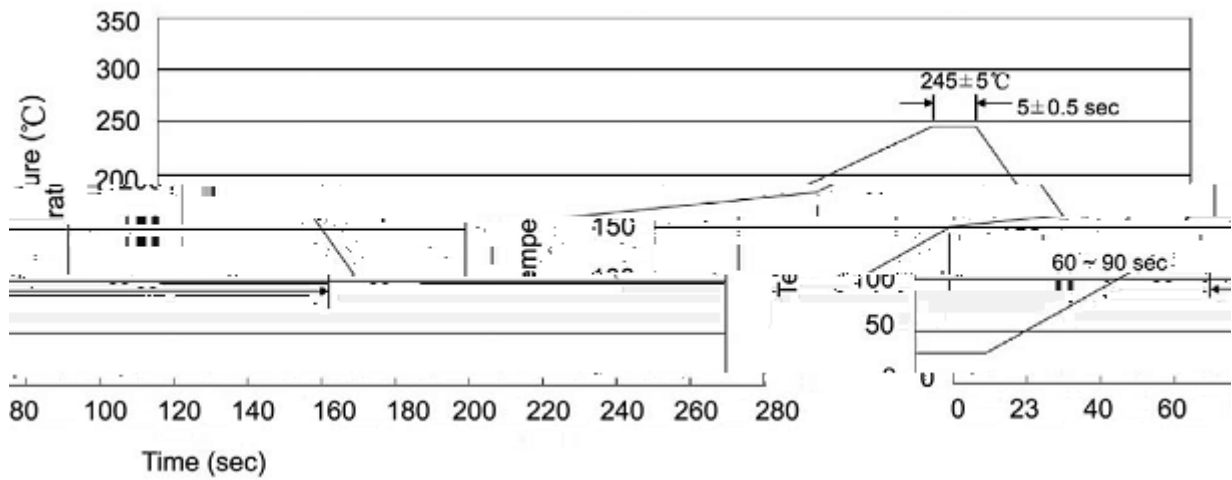
6C1

Note:

H: Company Code.

6C1: 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<br>封装形式 | Units 包装数量         |                         |                        |                              |                        | Dimension 包装尺寸 (unit: mm <sup>3</sup> ) |             |             |
|----------------------|--------------------|-------------------------|------------------------|------------------------------|------------------------|-----------------------------------------|-------------|-------------|
|                      | 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-23               | 3,000              | 10                      | 30,000                 | 6                            | 180,000                | 7 ρ ×8                                  | 180×120×180 | 390×385×205 |

/ Notices