



/ Revised record

| E | 2016-3   |       |                                                                                        |  |  |
|---|----------|-------|----------------------------------------------------------------------------------------|--|--|
| F | 2022-3-2 | 1 2 7 | Collector Current – Continuous $I_B$<br>=-5A Peak collector current $I_{CM}$<br>=-0.5A |  |  |
|   |          |       |                                                                                        |  |  |
|   |          |       |                                                                                        |  |  |
|   |          |       |                                                                                        |  |  |
|   |          |       |                                                                                        |  |  |
|   |          |       |                                                                                        |  |  |
|   |          |       |                                                                                        |  |  |
|   |          |       |                                                                                        |  |  |
|   |          |       |                                                                                        |  |  |
|   |          |       |                                                                                        |  |  |

/ Descriptions

SOT-89                      PNP                      Silicon PNP transistor in a SOT-89 Plastic Package.

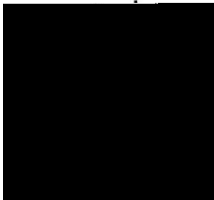
/ Features

Low  $V_{CE(sat)}$ , high current, HF product.

/ Applications

General purpose switching and muting, LCD back-lighting, supply line switching circuits.

/ Equivalent Circuit



/ Pinning



PIN1    Base                      PIN 2    Collector                      PIN 3    Emitter

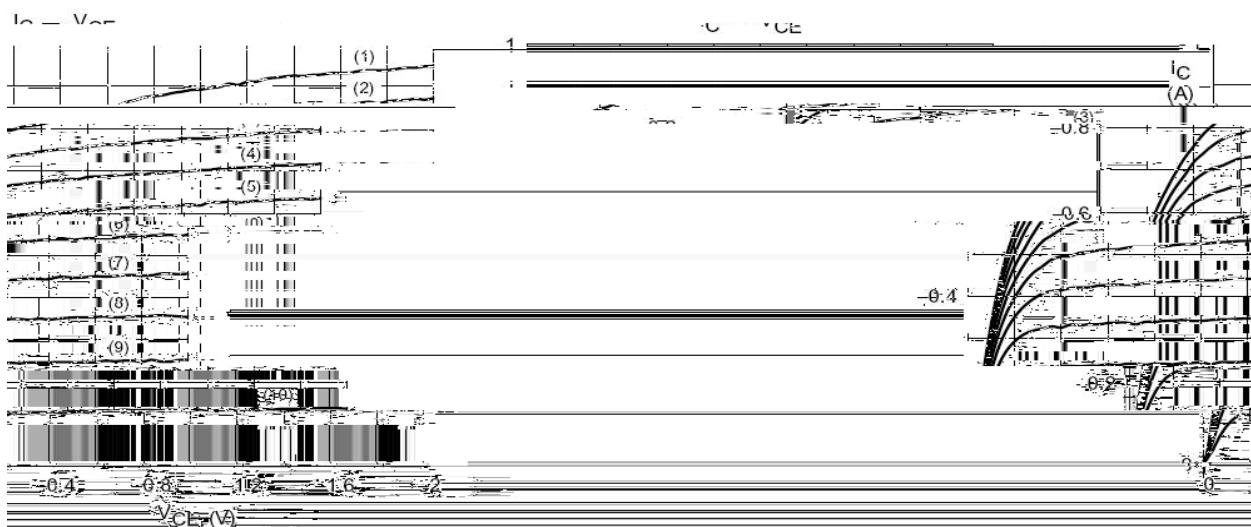
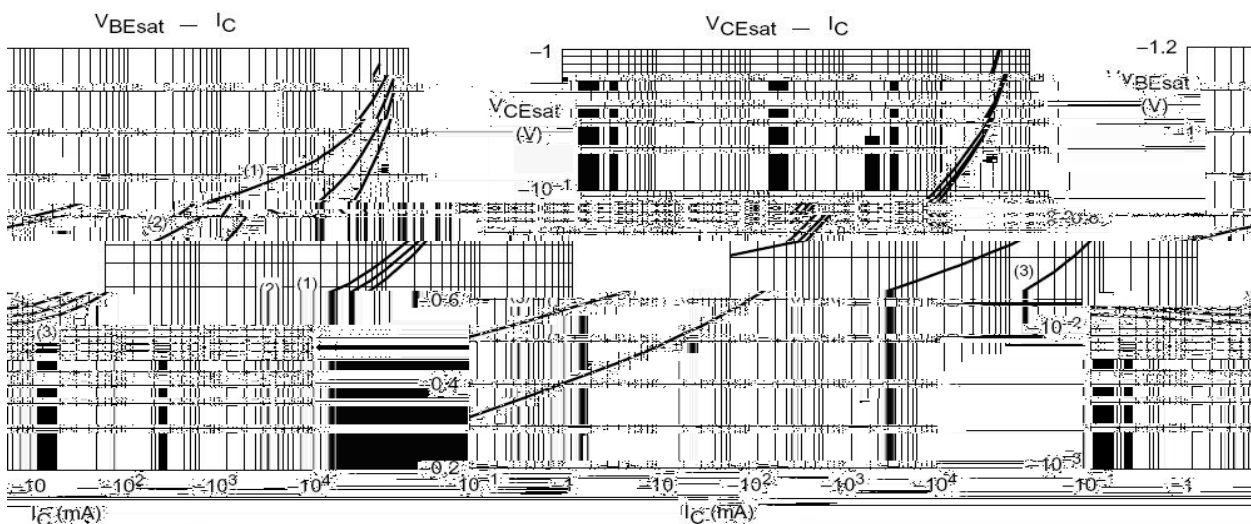
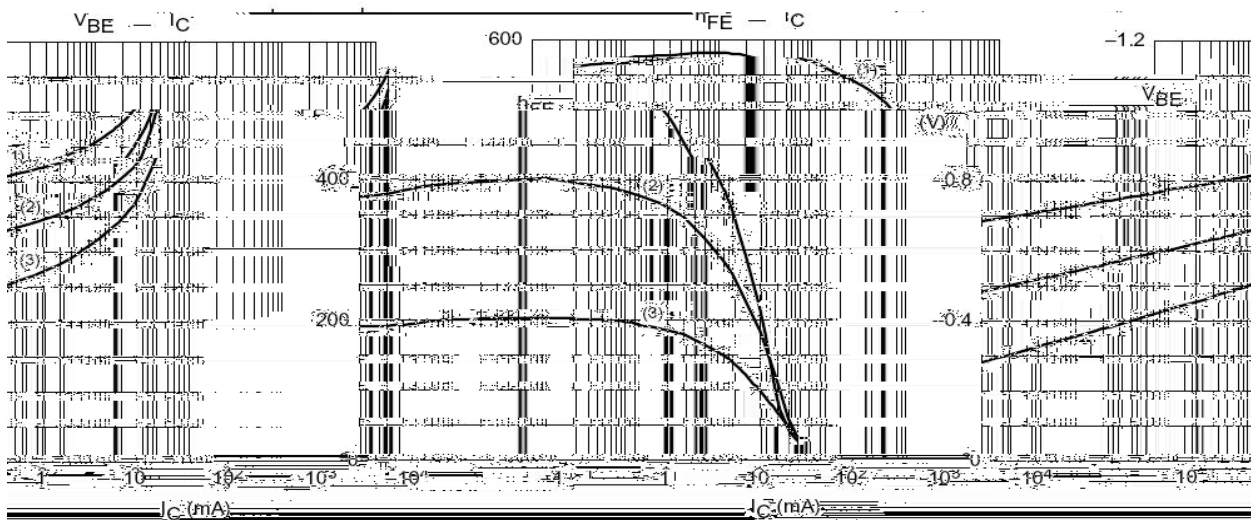
/ Marking

|         |             |
|---------|-------------|
| Marking | HS46 *<br>* |
|---------|-------------|

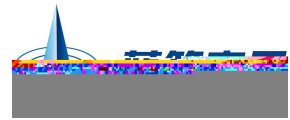


| Parameter                    | Symbol    | Rating | Unit |
|------------------------------|-----------|--------|------|
| Collector to Base Voltage    | $V_{CBO}$ | -50    | V    |
| Collector to Emitter Voltage | $V_{CEO}$ | -50    | V    |
| Emitter to Base Voltage      | $V_{EBO}$ | -5     | V    |

/ Electrical Characteristic Curve

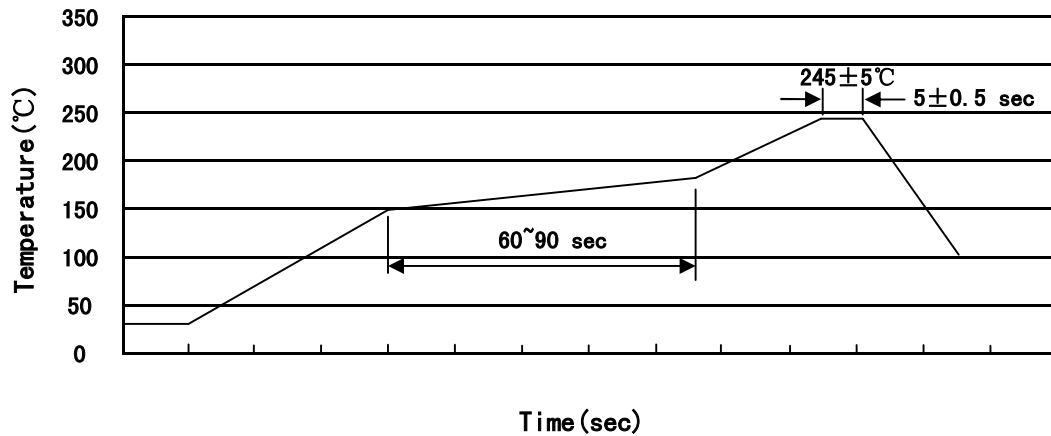








( ) / **Temperature Profile for IR Reflow Soldering(Pb-Free)**



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°C Time:10±1 sec

/ **Packaging SPEC.**

/ REEL

| Package Type | Units              |                         |                        |                              |                        | Dimension (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   | Outer Box   |
| SOT-89       | 1,000              | 7                       | 7,000                  | 6                            | 42,000                 | 7" ×12                            | 180×120×180 | 390×385×205 |

/ **Notices**