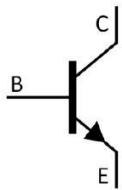


SOT-23      NPN      Silicon NPN transistor in a SOT-23 Plastic Package.

$V_{CEO}$   
High Collector-Emitter Voltage.

High voltage application.



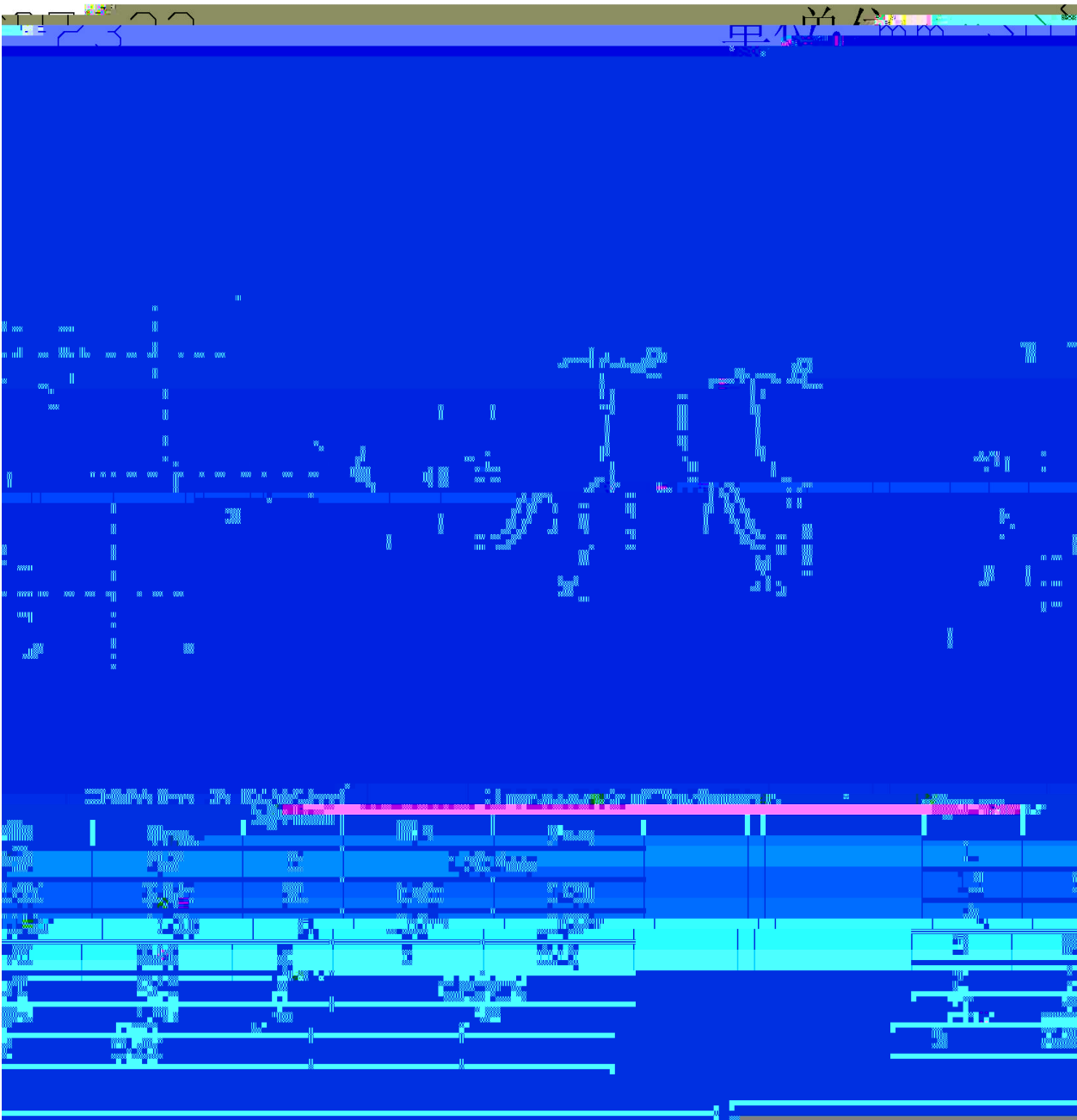
PIN1   Base      PIN 2   Emitter      PIN 3   Collector

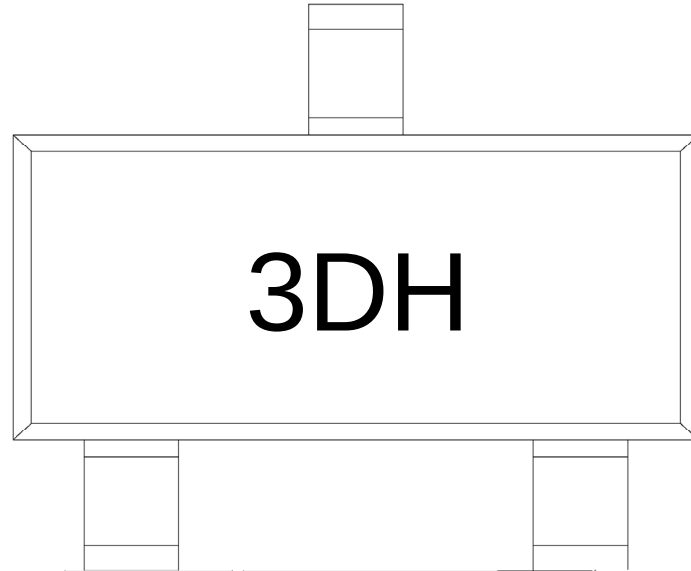
|                |        |
|----------------|--------|
| $h_{FE}$ Range | 30~200 |
| Marking        | 3DH    |

| Parameter                    | Symbol    | Rating   | Unit |
|------------------------------|-----------|----------|------|
| Collector to Base Voltage    | $V_{CBO}$ | 350      | V    |
| Collector to Emitter Voltage | $V_{CEO}$ | 350      | V    |
| Emitter to Base Voltage      | $V_{EBO}$ | 6.0      | V    |
| Collector Current            | $I_C$     | 500      | mA   |
| Collector Power Dissipation  | $P_C$     | 300      | 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<br>V |        |                 |     |     |     |      |







3D

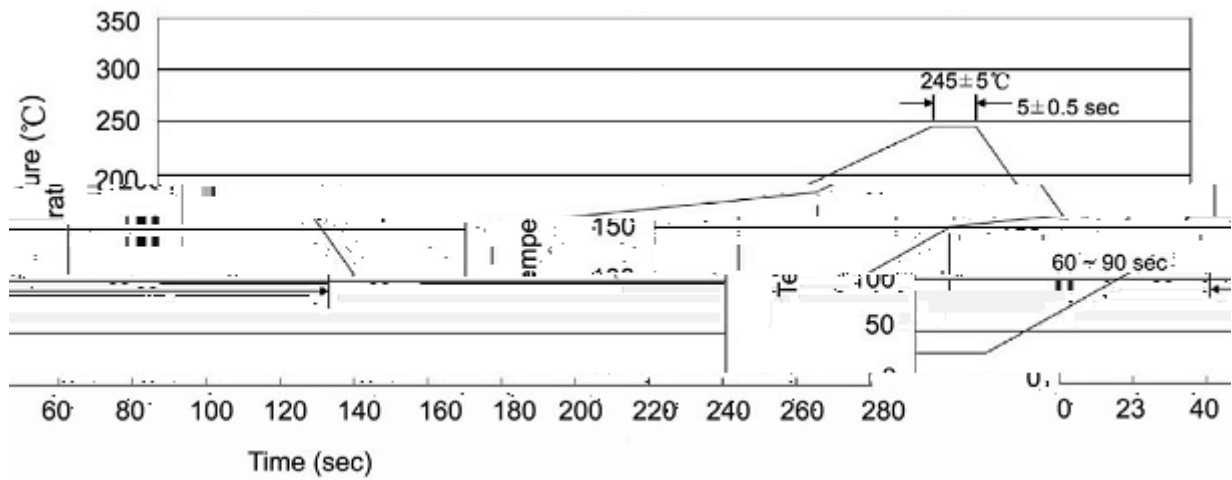
H

Note:

3D      Product Type Code

H        Company 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.

260±5

10±1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

| Package Type | Units      |                 |                 |                       |                 | Dimension (unit mm <sup>3</sup> ) |             |             |
|--------------|------------|-----------------|-----------------|-----------------------|-----------------|-----------------------------------|-------------|-------------|
|              | 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 ρ ×8                            | 180×120×180 | 390×385×205 |