

### / Descriptions

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

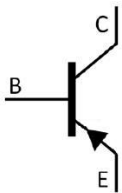
### / Features

High voltage, low saturation voltage, low collector output capacitance, complementary pair with MMBTA42.

### / Applications

High voltage control circuit.

### / Equivalent Circuit



### / Pinning



PIN1   Base          PIN 2   Emitter          PIN 3   Collector

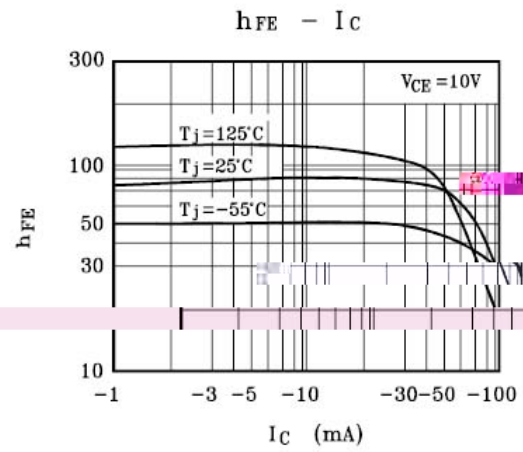
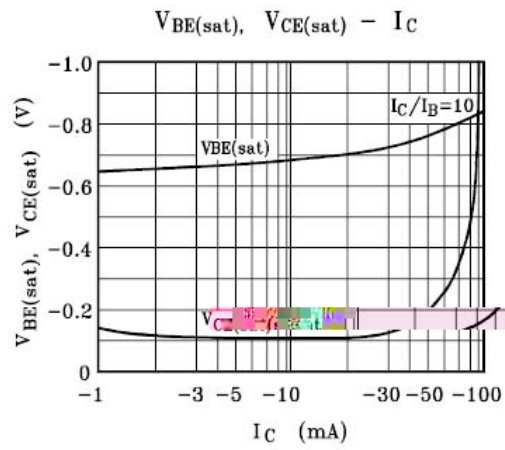
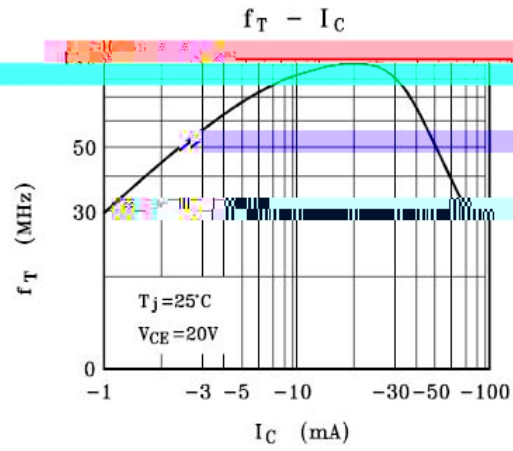
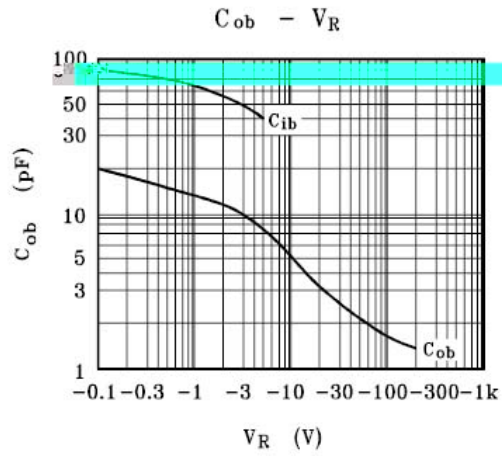
### / Marking

|                |     |
|----------------|-----|
| $h_{FE}$ Range | >40 |
| Marking        | H2D |

| Parameter                      | Symbol    | Rating  | Unit |
|--------------------------------|-----------|---------|------|
| Collector to Base Voltage      | $V_{CBO}$ | -300    | V    |
| Collector to Emitter Voltage   | $V_{CEO}$ | -300    | V    |
| Emitter to Base Voltage        | $V_{EBO}$ | -5.0    | V    |
| Collector Current - Continuous | $I_C$     | -500    | mA   |
| Collector Power Dissipation    | $P_C$     | 350     | mW   |
| Junction Temperature           | $T_J$     | 150     | °C   |
| Storage Temperature Range      | $T_{stg}$ | -55~150 | °C   |

| Parameter                              | Symbol    | Test Conditions             | Min  | Typ | Max | Unit |
|----------------------------------------|-----------|-----------------------------|------|-----|-----|------|
| Collector to Base Breakdown Voltage    | $V_{CBO}$ | $I_C = -100\mu A$ $I_E = 0$ | -300 |     |     | V    |
| Collector to Emitter Breakdown Voltage | $V_{CEO}$ | $I_C = -1.0mA$ $I_B = 0$    | -300 |     |     | V    |
| Emitter to Base Breakdown Voltage      | $V_{EBO}$ | $I_E = -100\mu A$ $I_C = 0$ | -5.0 |     |     | V    |
| Collector Cut-Off Current              | $I_{CBO}$ | $V_{CB} = -200V$ $I_E = 0$  |      |     |     |      |

/ Electrical Characteristic Curve



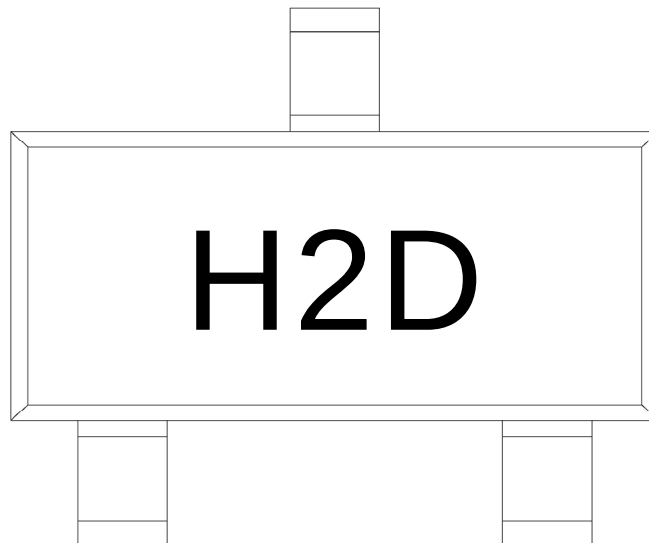
/ Package Dimensions

SOT-23

单位: mm



/ Marking Instructions



H

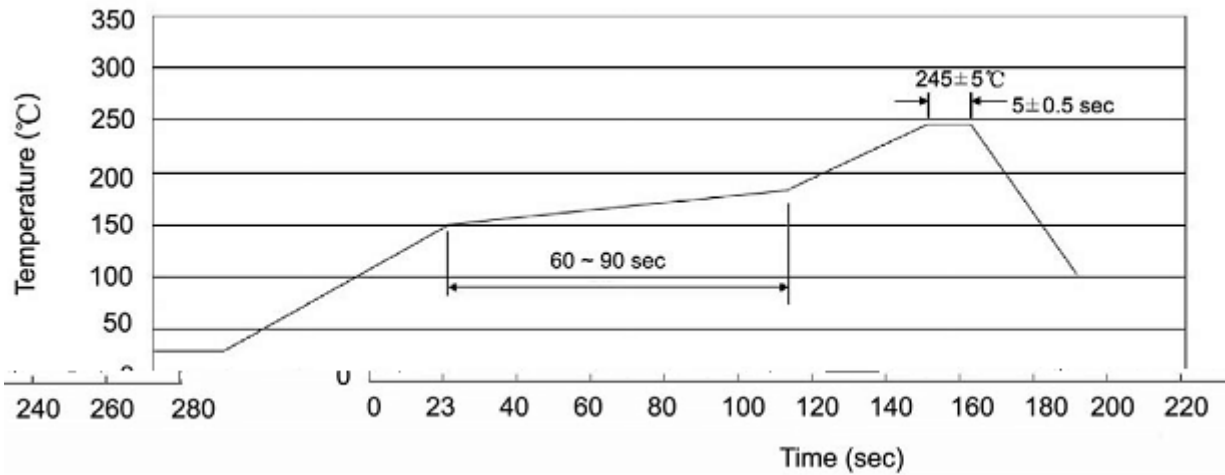
2D

Note:

H: Company Code.

2D: Product Type Code.

( ) /



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