

## / Descriptions

Silicon NPN transistor in a TO-251 Plastic Package.

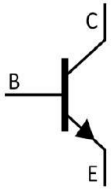
## / Features

High voltage, Low saturation voltage, low collector capacitance output, complementary pair with MPSA92I.

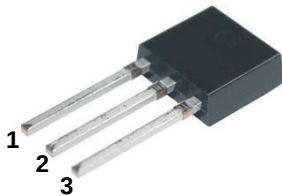
## / Applications

High voltage control circuit.

## / Equivalent Circuit



## / Pinning



PIN1 Base      PIN 2 Collector      PIN 3 Emitter

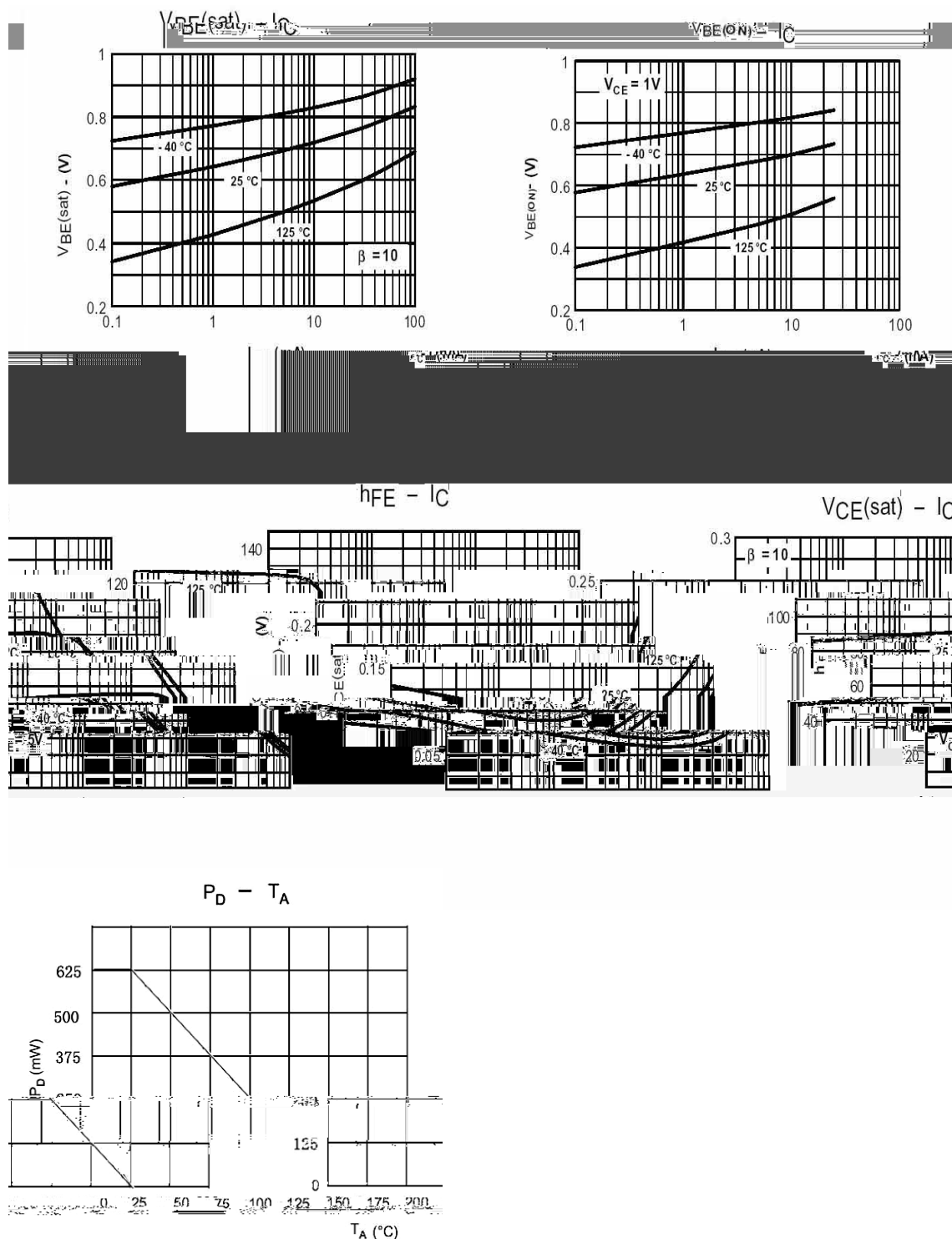
## / $h_{FE}$ Classifications & Marking

See Marking Instructions.

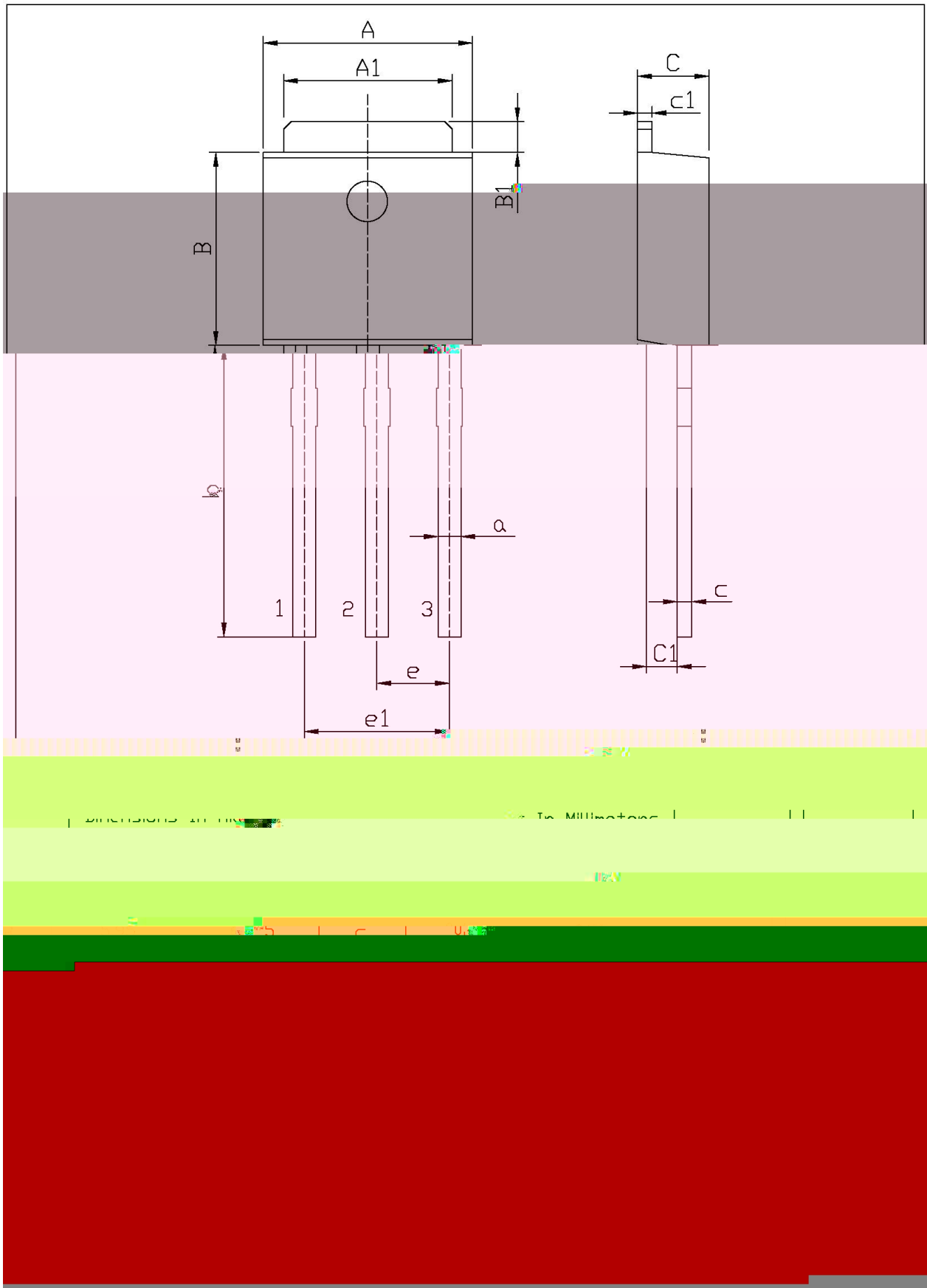
| Parameter                      | Symbol    | Rating  | Unit |
|--------------------------------|-----------|---------|------|
| Collector to Base Voltage      | $V_{CBO}$ | 300     | V    |
| Collector to Emitter Voltage   | $V_{CEO}$ | 300     | V    |
| Emitter to Base Voltage        | $V_{EBO}$ | 6.0     | V    |
| Collector Current - Continuous | $I_C$     | 500     | mA   |
| Collector Power Dissipation    | $P_C$     | 625     | mW   |
| Junction Temperature           | $T_j$     | 150     |      |
| Storage Temperature Range      | $T_{stg}$ | -55 150 |      |

Parameter                      Symbol                      Test Conditions                      ... Z ... Z

# Electrical Characteristic Curve

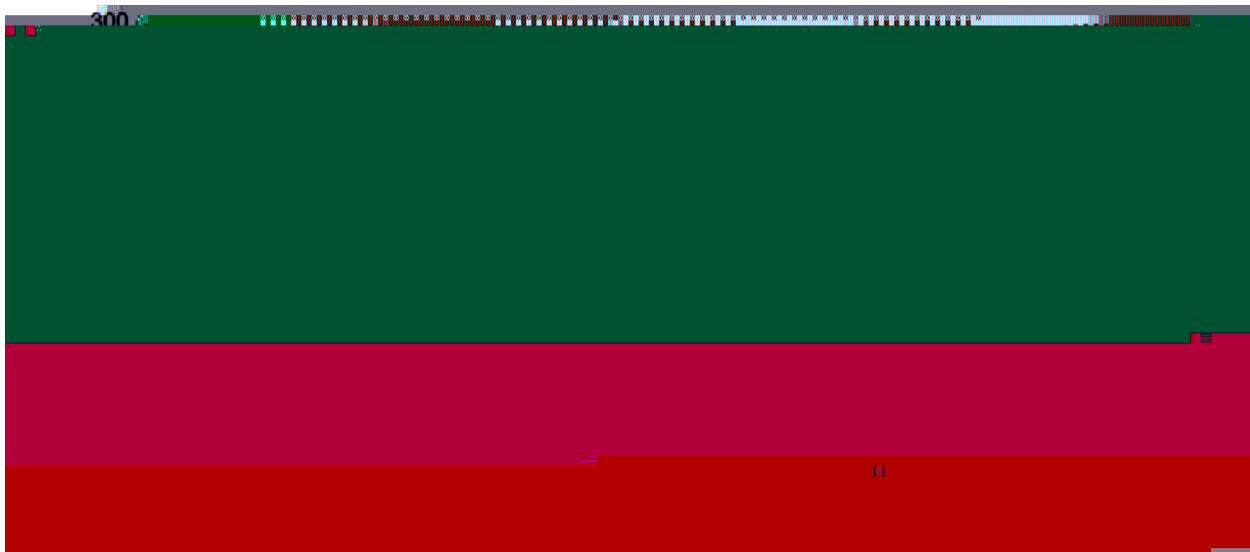


/ Package Dimensions





( ) / Temperature Profile for Dip Soldering(Pb-Free)



Note:

- |   |     |     |    |          |                                         |
|---|-----|-----|----|----------|-----------------------------------------|
| 1 | 25  | 150 | 60 | 90sec;   | 1.Preheating:25~150 , Time:60~90sec.    |
| 2 | 255 | 5   | 5  | 0.5sec;  | 2.Peak Temp.:255 5 , Duration:5 0.5sec. |
| 3 |     |     | 2  | 10 /sec. | 3. Cooling Speed: 2~10 /sec.            |

/ Resistance to Soldering Heat Test Conditions

270 5                      10 1 sec.                      Temp.:270±5                      Time:10±1 sec

/ Packaging SPEC.

/ BULK

| Package Type<br>封装形式 | Units/Bag<br>只/袋 | Bags/Inner Box<br>袋/盒 | Units 包装数量<br>Units/Inner Box<br>只/盒 | Dimension 包装尺寸 (unit: mm <sup>3</sup> ) |
|----------------------|------------------|-----------------------|--------------------------------------|-----------------------------------------|
|----------------------|------------------|-----------------------|--------------------------------------|-----------------------------------------|