

### / Descriptions

TO-251          NPN          Silicon NPN transistor in a TO-251 Plastic Package.

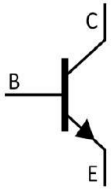
### / Features

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

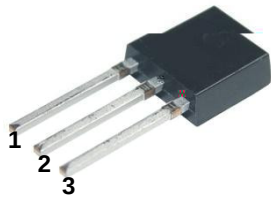
### / Applications

High voltage control circuit.

### / Equivalent Circuit



### / Pinning



PIN1   Base          PIN 2   Collector          PIN 3   Emitter

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

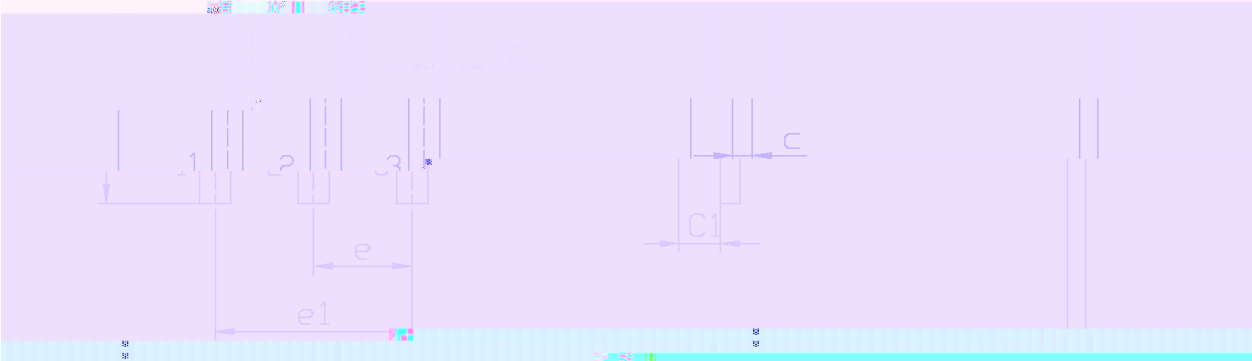
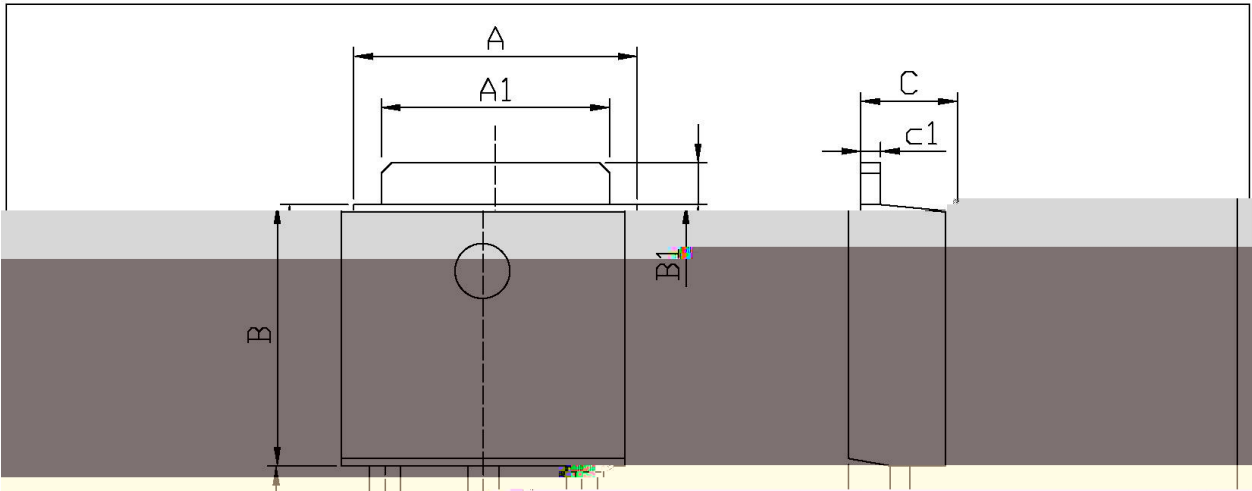
See Marking Instructions.

| 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         |        |      |

MPSA42I

MPS3(Rcv)7Tw9(.)-4(D)-10.9(A)95.8T-4(1(A) Tm5( S)-6(H)Tm5(EET)TJ98060 13.9862.94 76062.9527.6-0.0018Tc0.2042I )Tj/T9 0

/ Package Dimensions

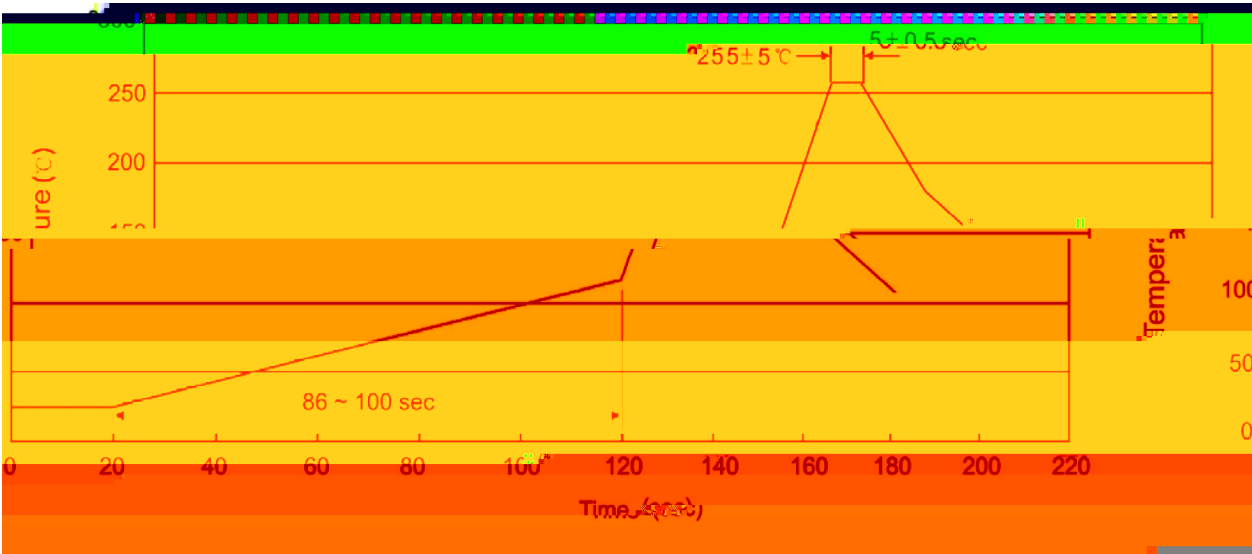


| Dimensions in millimeters |      |      | Symbol |      |      |
|---------------------------|------|------|--------|------|------|
| Symbol                    | Min  | Max  | Symbol | Min  | Max  |
| a                         | 0.50 | 0.75 | A      | 6.45 | 6.75 |





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



Note:

- 1

25 150

60 90sec;
- 2

255±5

5±0.5sec;
- 3

2 10

/sec.
- 1.Preheating:25~150

, Time:60~90sec.
- 2.Peak Temp.:255±5

, Duration:5±0.5sec.
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 包装数量       |                       | Dimension 包装尺寸 (unit: mm <sup>3</sup> ) |      |    |    |             |          |                  |           |        |                                                                      |
|----------------------|------------------|-----------------------|-----------------------------------------|------|----|----|-------------|----------|------------------|-----------|--------|----------------------------------------------------------------------|
|                      | Units/Bag<br>只/袋 | Bags/Inner Box<br>袋/盒 | Units/Inner Box<br>只/盒                  | InnU | T6 | T4 | Inno6.2(xp) | 6.2(xsp) | 6.66/Ou6.2(fite) | 6.66/6.04 | 289.46 | 6 7.44 31e0bnBT6.485(80 0 6.48 247.74 290.9603 T081e0bnB(TT13 1 T6.4 |