

/ Descriptions

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

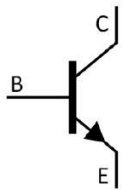
/ Features

$V_{CE(sat)}$, h_{FE}
Low saturation voltage, excellent h_{FE} linearity and high h_{FE} .

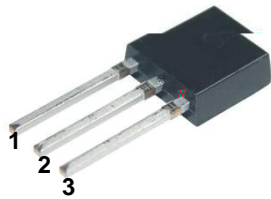
/ Applications

3
Output stage of 3 watts audio amplifier, voltage regulator, DC-DC converter and relay driver.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

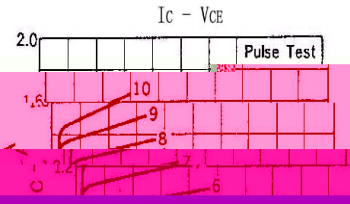
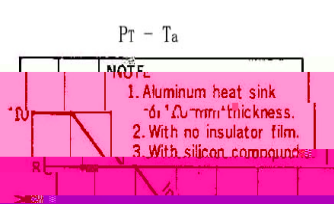
/ h_{FE} Classifications & Marking

| h_{FE} Classification Symbol | R | Q | P | E |
|--------------------------------|--------|---------|---------|---------|
| h_{FE} Range | 60 120 | 100 200 | 160 320 | 200 400 |

Parameter

Symbol

/ Electrical Characteristic Curve

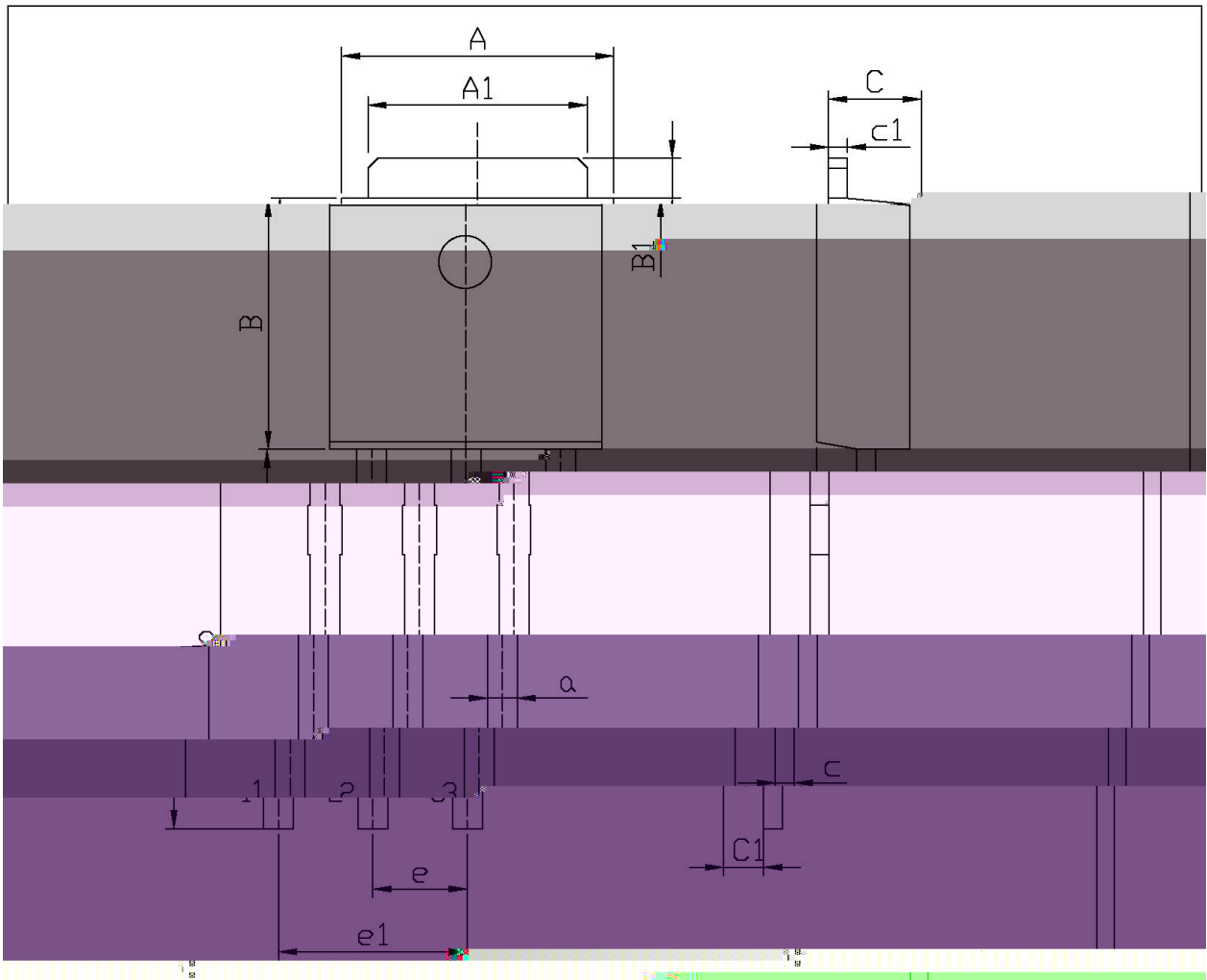


$f_T - I_C$

$C_{ob} - V_{EB}$



/ Package Dimensions

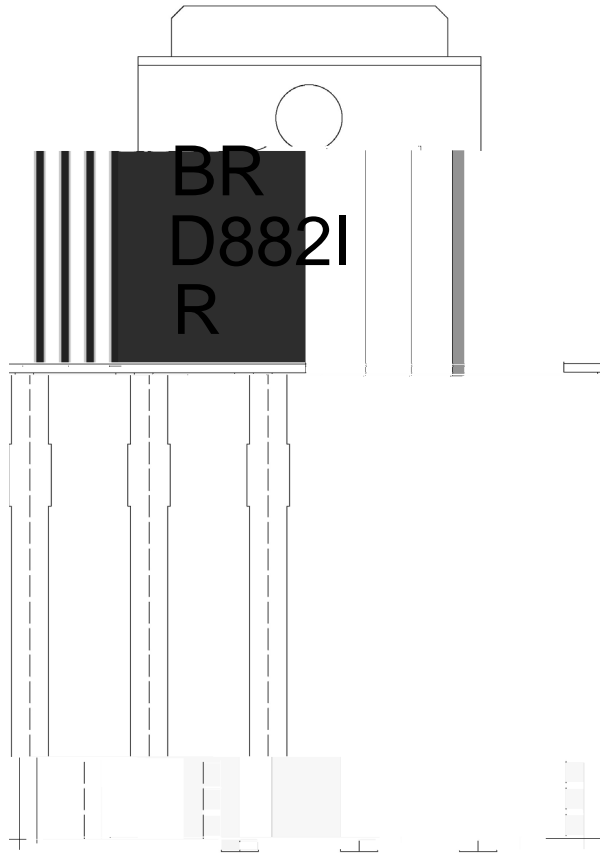


单位: mm

| Dimensions In Millimeters | Symbol | Dimensions In Inches | Symbol |
|---------------------------|--------|----------------------|--------|
| 1.5 | A | 0.059 | A |
| 1.2 | A1 | 0.047 | A1 |
| 2.5 | B | 0.098 | B |
| 1.5 | B1 | 0.059 | B1 |
| 1.5 | C | 0.059 | C |
| 1.5 | C1 | 0.059 | C1 |
| 0.5 | a | 0.019 | a |
| 0.5 | e | 0.019 | e |
| 1.5 | e1 | 0.059 | e1 |
| 1.5 | C1 | 0.059 | C1 |

TO-251

/ Marking Instructions



BR

D882I

R: h_{FE}

Note:

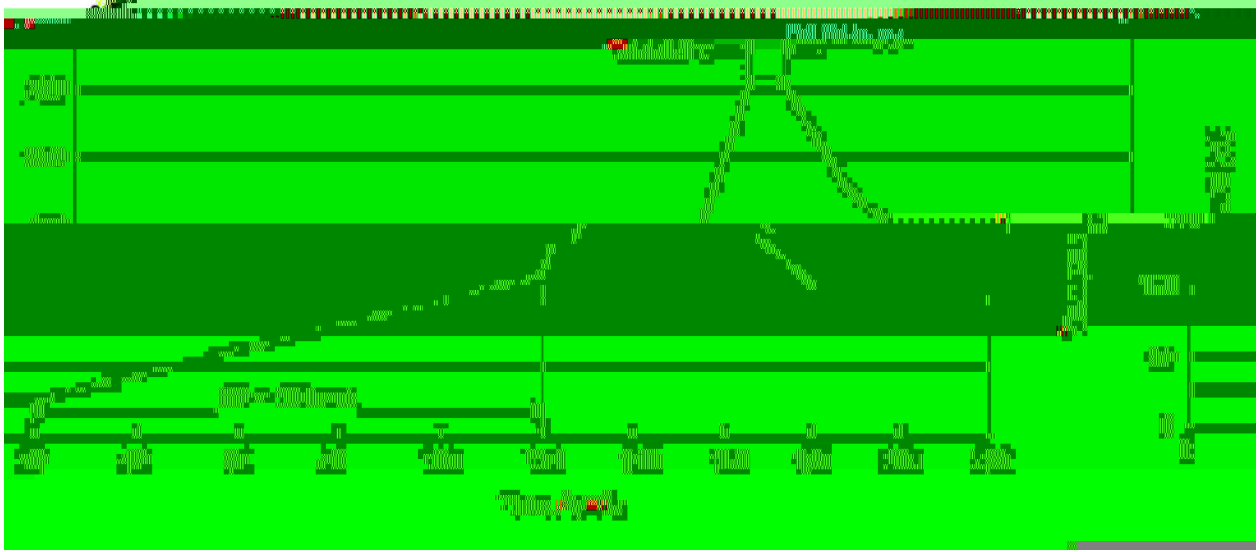
BR: Company Code

D882I: Product Type.

R: h_{FE} Classifications Symbol

****: Lot No. Code, code change with Lot No.

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



- | | | | | | | |
|---|-------|-----|-----------|--------|---|--------------------------------------|
| 1 | 25 | 150 | 60 | 90sec; | Note: | 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 封装形式 | Units 包装数量 | | | | | Dimension 包装尺寸 (unit: mm ³) | | |
|----------------------|------------|----|----|----|----|---|---|---|
| | 只袋 | 袋盒 | 只盒 | 盒箱 | 只箱 | 袋 | 盒 | 箱 |
| | | | | | | | | |

/ TUBE

| Package Type 封装形式 | Units 包装数量 | | | | | Dimension 包装尺寸 (unit: mm ³) | | |
|----------------------|------------|-----|----|----|----|---|---|---|
| | 只套管 | 套管盒 | 只盒 | 盒箱 | 只箱 | 套管 | 盒 | 箱 |
| | | | | | | | | |

/ Notices