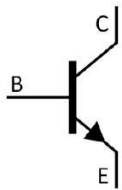


TO-92LM      NPN      Silicon NPN transistor in a TO-92LM Plastic Package.

High  $V_{CE0}$ .

Color TV horizontal deflection driver, chroma output applications.



PIN1   Base      PIN 2   Collector      PIN 3   Emitter

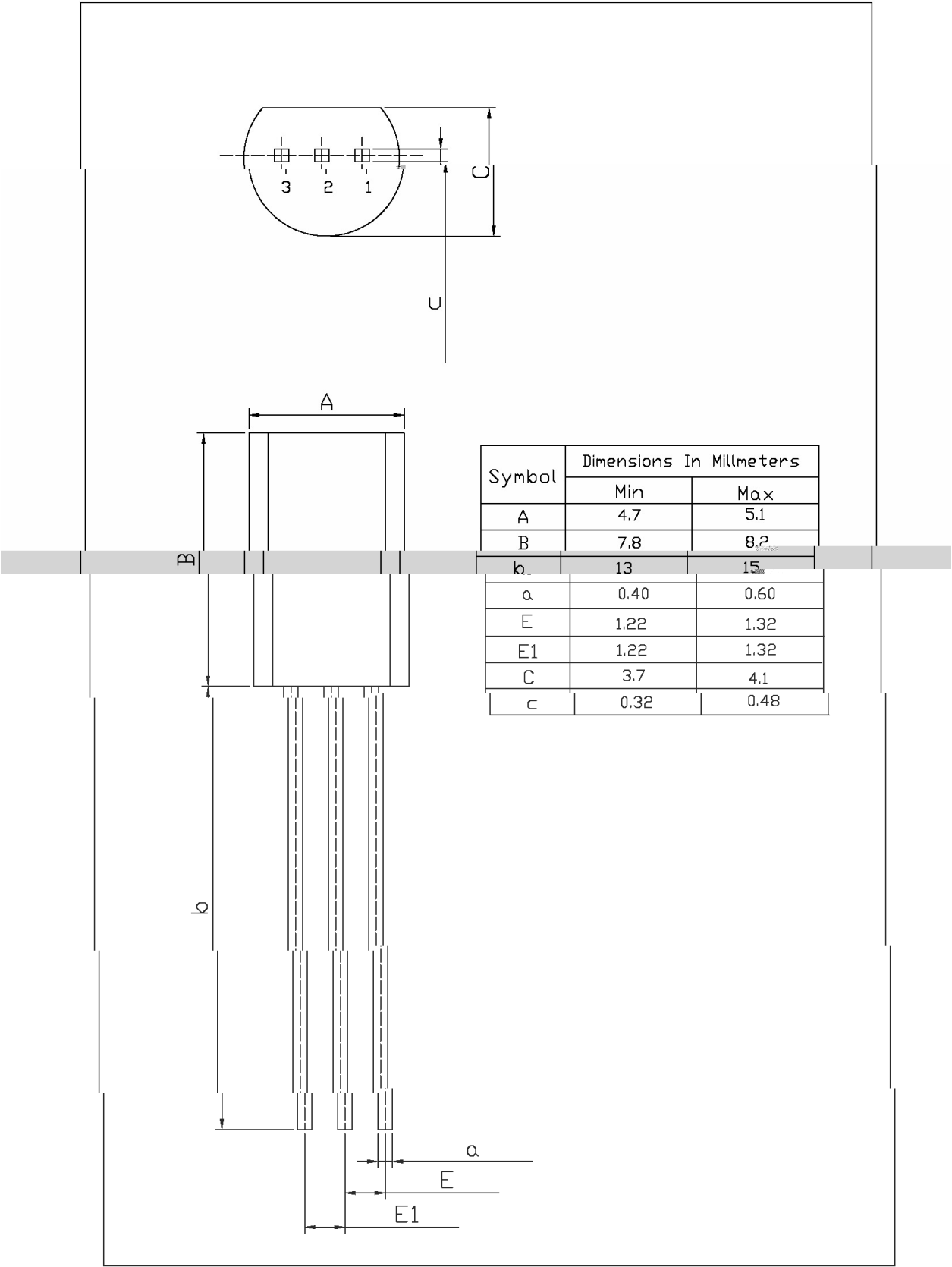
| $h_{FE}$ Classifications<br>Symbol | C       | D        | E         |
|------------------------------------|---------|----------|-----------|
| $h_{FE}$ Range                     | 40   80 | 60   120 | 100   200 |

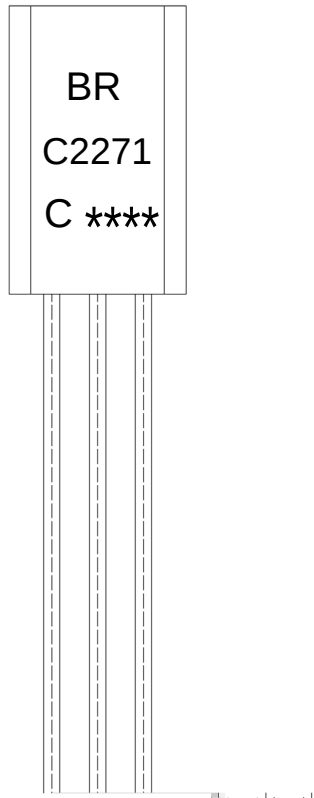
| Parameter                    | Symbol    | Rating  | Unit |
|------------------------------|-----------|---------|------|
| Collector to Base Voltage    | $V_{CBO}$ | 300     | V    |
| Collector to Emitter Voltage | $V_{CEO}$ | 300     | V    |
| Emitter to Base Voltage      | $V_{EBO}$ | 6.0     | V    |
| Collector Current (DC)       | $I_C$     | 100     | mA   |
| Collector Current (Pulse)    | $I_{CP}$  | 300     | mA   |
| Collector Power Dissipation  | $P_C$     | 900     | mW   |
| Junction Temperature         | $T_j$     | 150     |      |
| Storage Temperature Range    | $T_{stg}$ | -55 150 |      |

| Parameter                               | Symbol        | Test Conditions                    | Min | Typ | Max | Unit    |
|-----------------------------------------|---------------|------------------------------------|-----|-----|-----|---------|
| Collector Cut-Off Current               | $I_{CBO}$     | $V_{CB}=200V$ $I_E=0$              |     |     | 1.0 | $\mu A$ |
| Emitter Cut-Off Current                 | $I_{EBO}$     | $V_{EB}=6.0V$ $I_C=0$              |     |     | 1.0 | $\mu A$ |
| DC Current Gain                         | $h_{FE}$      | $V_{CE}=10V$ $I_C=10mA$            | 40  |     | 200 |         |
| Collector to Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=20mA$ $I_B=2.0mA$             |     |     | 0.6 | V       |
| Base to Emitter Saturation Voltage      | $V_{BE(sat)}$ | $I_C=20mA$ $I_B=2.0mA$             |     |     | 1.0 | V       |
| Transition Frequency                    | $f_T$         | $V_{CE}=30V$ $I_C=10mA$            | 50  |     |     | MHz     |
| Collector output capacitance            | $C_{ob}$      | $V_{CB}=10V$ $I_E=0$<br>$f=1.0MHz$ |     |     | 7.5 | pF      |

TO-92LM

Unit: mm





BR:

C2271

C:  $h_{FE}$

\*\*\*\*

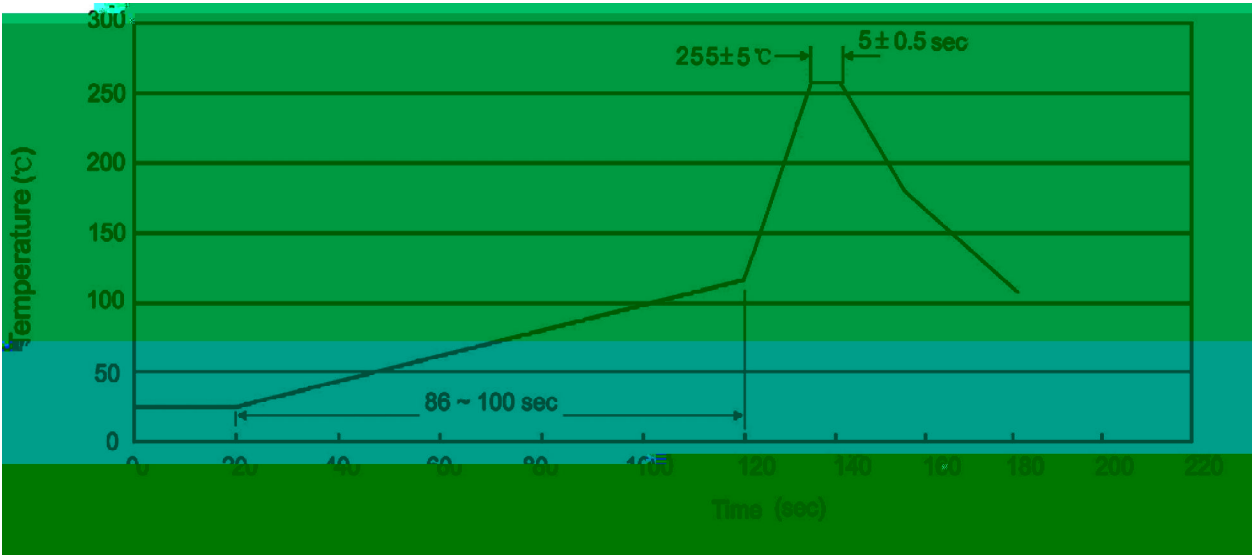
Note:

BR: Company Code.

C2271: Product Type.

C:  $h_{FE}$  Classifications Symbol

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



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.

270±5

10±1 sec.

Temp.:270±5

Time:10±1 sec

/ BULK

| Package Type<br>封装形式 | Units 包装数量       |                       |                        |                              |                        | Dimension 包装尺寸 (unit: mm3) |             |             |
|----------------------|------------------|-----------------------|------------------------|------------------------------|------------------------|----------------------------|-------------|-------------|
|                      | Units/Bag<br>只/袋 | Bags/Inner Box<br>袋/盒 | Units/Inner Box<br>只/盒 | Inner Boxes/Outer Box<br>盒/箱 | Units/Outer Box<br>只/箱 | Bag 袋                      | Inner Box 盒 | Outer Box 箱 |
| TO-92LM              | 1,000            | 8                     | 8,000                  | 5                            | 40,000                 | 135×190                    | 237×172×102 | 560×245×195 |

/ AMMO

| Package Type<br>封装形式 | Units 包装数量         |                        |                         |                              |                        | Dimension 包装尺寸 (unit: mm3) |                                  |
|----------------------|--------------------|------------------------|-------------------------|------------------------------|------------------------|----------------------------|----------------------------------|
|                      | Units/tape<br>只/纸带 | Tape/Inner Box<br>纸带/盒 | Rows/Inner Box<br>纸带层/盒 | Inner Boxes/Outer Box<br>盒/箱 | Units/Outer Box<br>只/箱 | Inner Box 盒                | Outer Box 箱                      |
| TO-92LM              | 2,500              | 1                      | 100                     | 10                           | 25,000                 | 328×230×42                 | 小箱 480×346×235<br>大箱 547×407×268 |