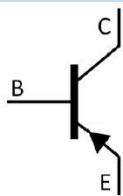


Silicon PNP transistor in a TO-126F Plastic Package.

Low saturation voltage, excellent  $h_{FE}$  linearity and high  $h_{FE}$ .

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

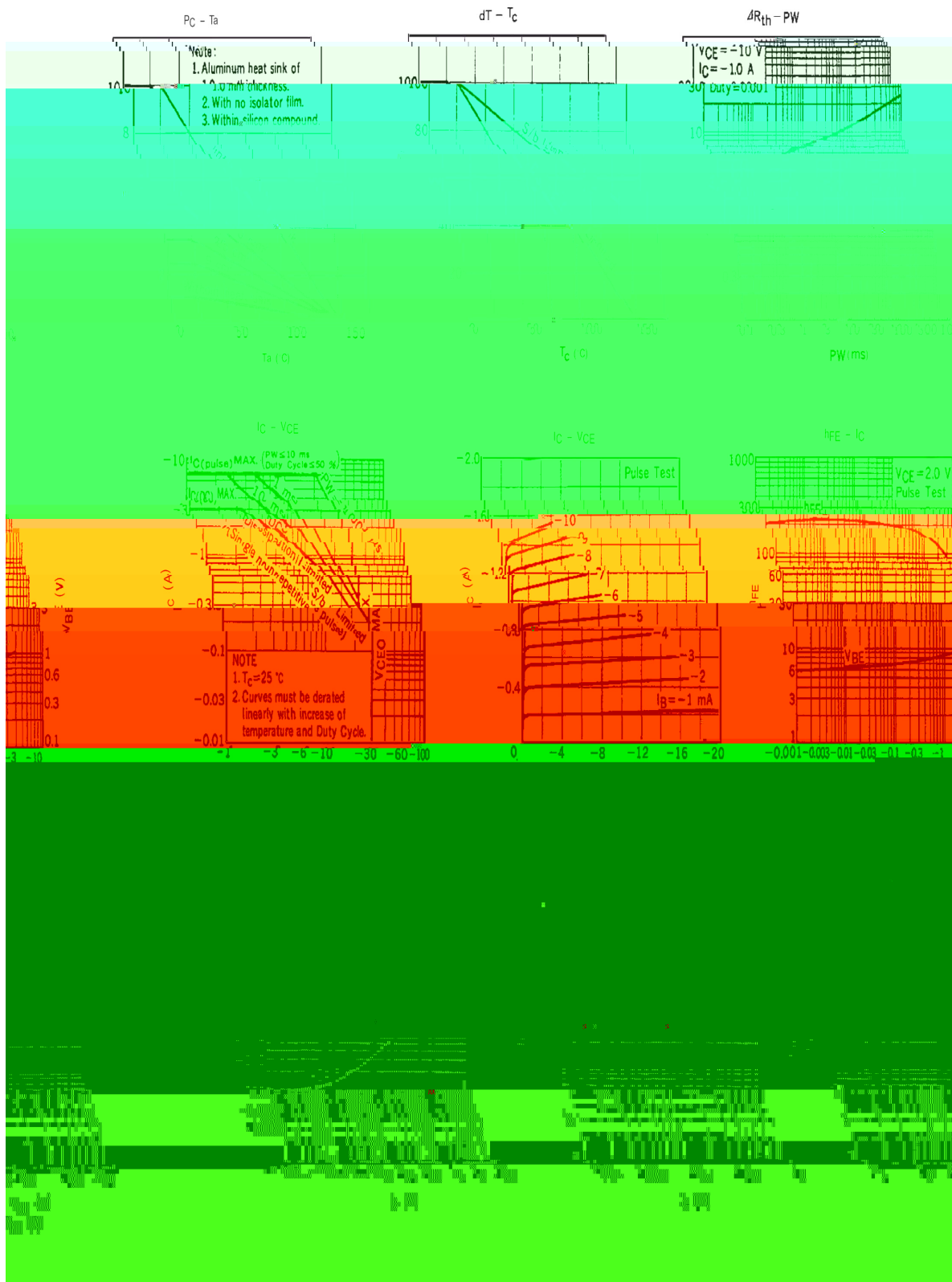


PIN1 Emitter      PIN 2 Collector      PIN 3 Base

| $h_{FE}$ Classifications<br>Symbol | R      | Q       | P       | E       |
|------------------------------------|--------|---------|---------|---------|
| $h_{FE}$ Range                     | 60 120 | 100 200 | 160 320 | 200 400 |

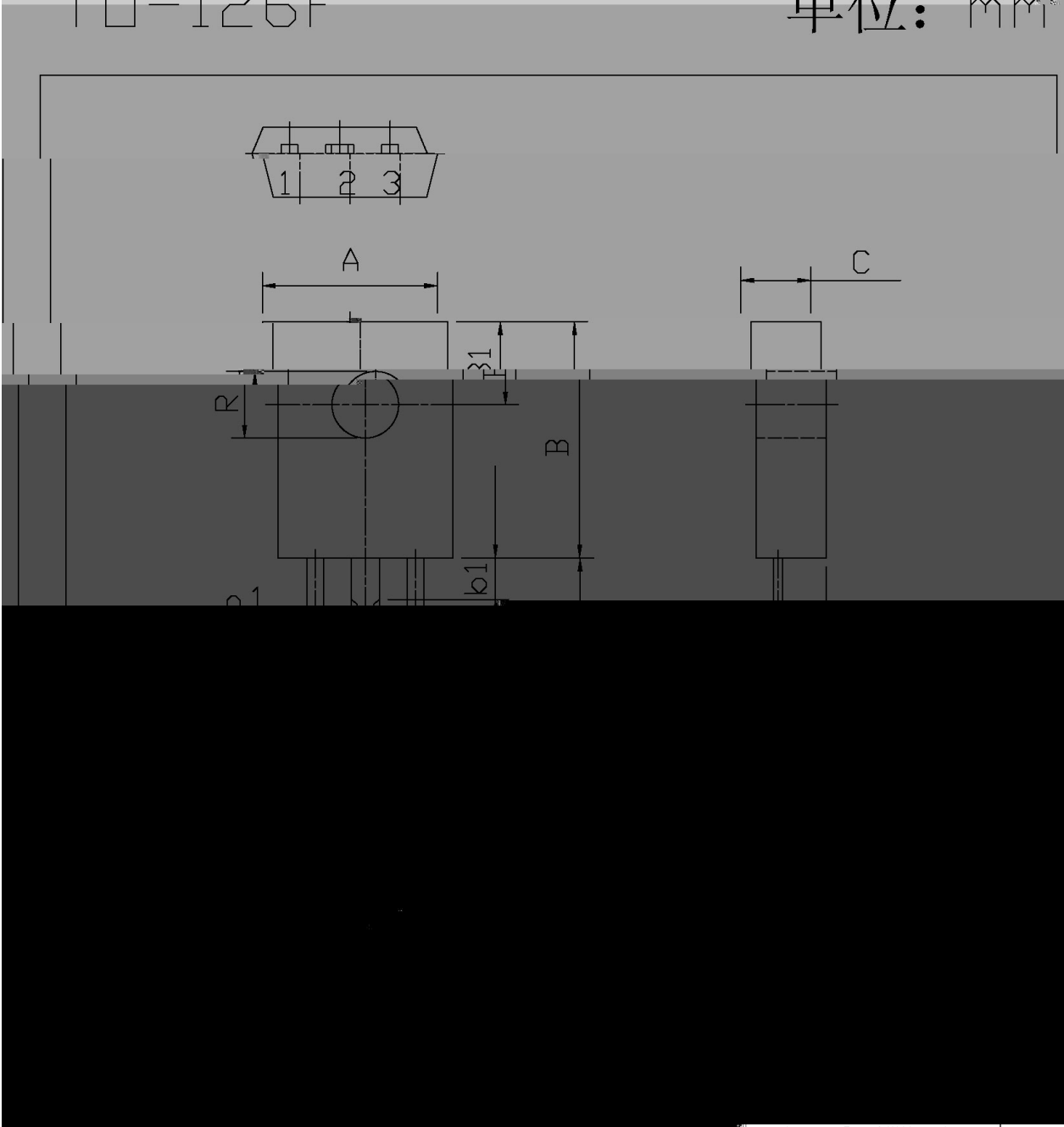
| Parameter                           | Symbol                      | Rating  | Unit |
|-------------------------------------|-----------------------------|---------|------|
| Collector to Base Voltage           | $V_{CBO}$                   | -40     | V    |
| Collector to Emitter Voltage        | $V_{CEO}$                   | -30     | V    |
| Emitter to Base Voltage             | $V_{EBO}$                   | -5.0    | V    |
| Collector Current - Continuous      | $I_C$                       | -3.0    | A    |
| Peak Collector Current – Continuous | $I_{CP}$                    | -7.0    | A    |
| Collector Power Dissipation         | $P_C$                       | 1.0     | W    |
|                                     | $P_C(T_C=25^\circ\text{C})$ | 10      | W    |
| Junction Temperature                | $T_j$                       | 150     |      |
| Storage Temperature Range           | $T_{stg}$                   | -55 150 |      |

| Parameter                               | Symbol        | Test Conditions                     | Min | Typ  | Max  | Unit    |
|-----------------------------------------|---------------|-------------------------------------|-----|------|------|---------|
| Collector Cut-Off Current               | $I_{CBO}$     | $V_{CB}=-30V$ $I_E=0$               |     |      | -1.0 | $\mu A$ |
| Emitter Cut-Off Current                 | $I_{EBO}$     | $V_{EB}=-3.0V$ $I_C=0$              |     |      | -1.0 | $\mu A$ |
| DC Current Gain                         | $h_{FE(1)}$   | $V_{CE}=-2.0V$ $I_C=-1.0A$          | 60  | 160  | 400  |         |
|                                         | $h_{FE(2)}$   | $V_{CE}=-2.0V$ $I_C=-20mA$          | 30  | 220  |      |         |
| Collector to Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=-2.0A$ $I_B=-0.2A$             |     | -0.3 | -0.5 | V       |
| Base to Emitter Saturation Voltage      | $V_{BE(sat)}$ | $I_C=-2.0A$ $I_B=-0.2A$             |     | -1.0 | -2.0 | V       |
| Transition Frequency                    | $f_T$         | $V_{CE}=-5.0V$ $I_C=-0.1A$          |     | 80   |      | MHz     |
| Output Capacitance                      | $C_{ob}$      | $V_{CB}=-10V$ $I_E=0$<br>$f=1.0MHz$ |     | 55   |      | pF      |

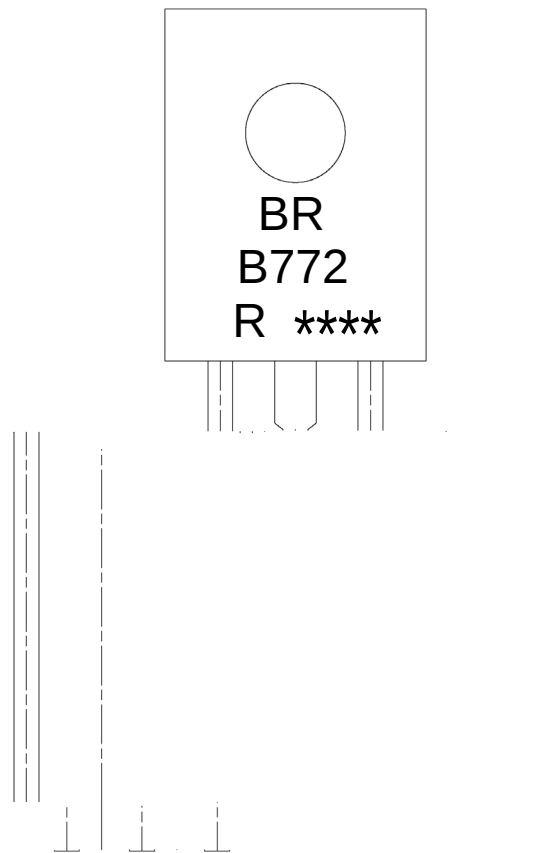


TU-126F

单位: mm



| Dimensions in Millimeters |      |      | Dimensions in Millimeters |      |      |
|---------------------------|------|------|---------------------------|------|------|
| Symbol                    | Min  | Max  | Symbol                    | Min  | Max  |
| A                         | 7.8  | 8.2  | a1                        | 0.55 | 0.85 |
| B                         | 10.8 | 11.2 | E1                        | 4.4  | 4.8  |
| B1                        | 3.8  | 4.2  | C                         | 3.1  | 3.3  |
| R                         | 2.05 | 2.15 | a                         | 1.27 | 2.1  |
| b                         | 14   | 16   | c                         | 0.3  | 0.6  |
| b1                        | 1.9  |      |                           | 1.27 |      |
| E1                        | 2.1  | 2.5  |                           |      |      |



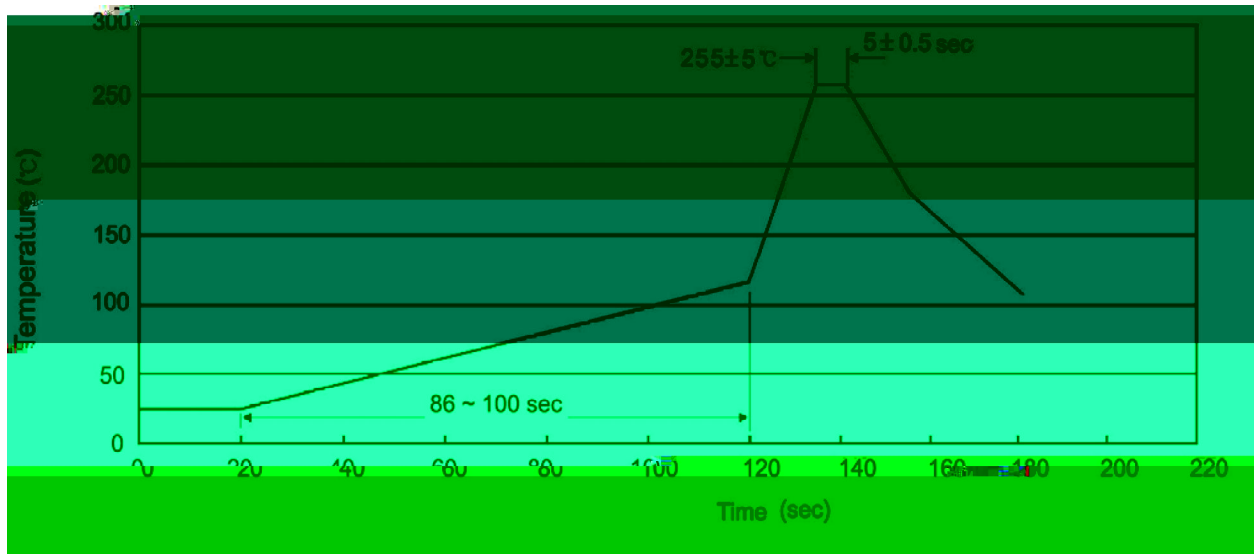
Note:

BR: Company Code

B772: Product Type.

R:  $h_{FE}$  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 | Units           |                      |                      |                            |                      | Dimension (unit mm <sup>3</sup> ) |             |             |
|--------------|-----------------|----------------------|----------------------|----------------------------|----------------------|-----------------------------------|-------------|-------------|
|              | Units/Tube<br>/ | Tubes/Inner Box<br>/ | Units/Inner Box<br>/ | Inner Boxes/Outer Box<br>/ | Units/Outer Box<br>/ | Tube                              | Inner Box   | Outer Box   |
| TO-126/F     | 500             | 6                    | 3,000                | 5                          | 15,000               | 135×190                           | 237×172×102 | 560×245×195 |

/ TUBE

| Package Type | Units           |                      |                      |                            |                      | Dimension (unit mm <sup>3</sup> ) |            |             |
|--------------|-----------------|----------------------|----------------------|----------------------------|----------------------|-----------------------------------|------------|-------------|
|              | Units/Tube<br>/ | Tubes/Inner Box<br>/ | Units/Inner Box<br>/ | Inner Boxes/Outer Box<br>/ | Units/Outer Box<br>/ | Tube                              | Inner Box  | Outer Box   |
| TO-126/F     | 65              | 26                   | 1,690                | 5                          | 8,450                | 532×31×5.6                        | 555×164×50 | 575×290×180 |