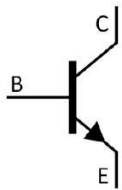


TO-92LM      NPN      Silicon NPN transistor in a TO-92LM Plastic Package.

2SA966      3W  
 Complementary to 2SA966 And 3 watts output applications.

Audio frequency power amplifier applications.

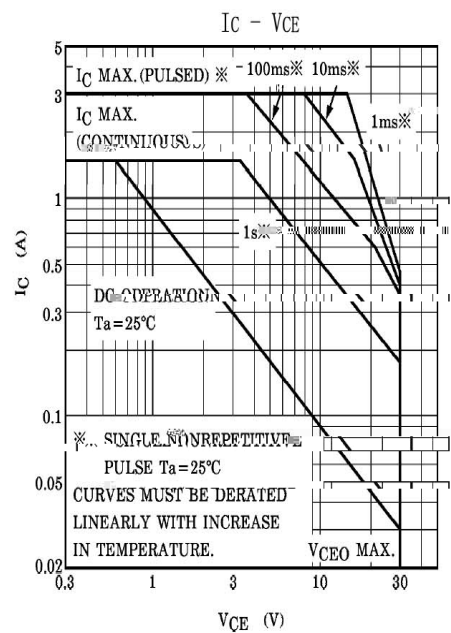
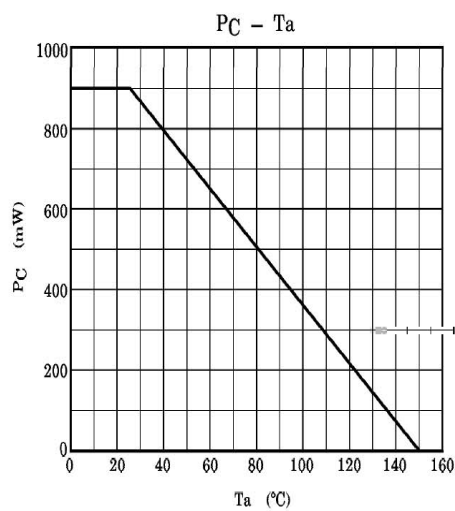
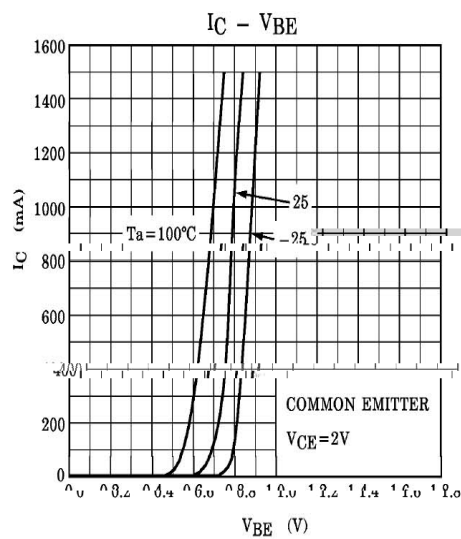
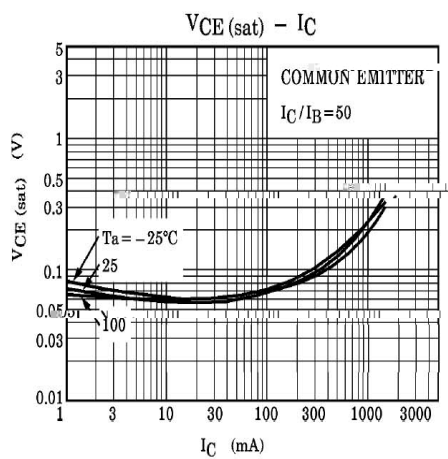
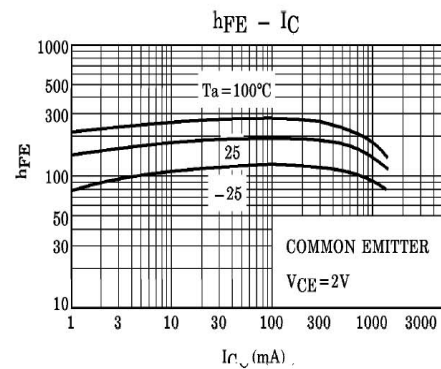
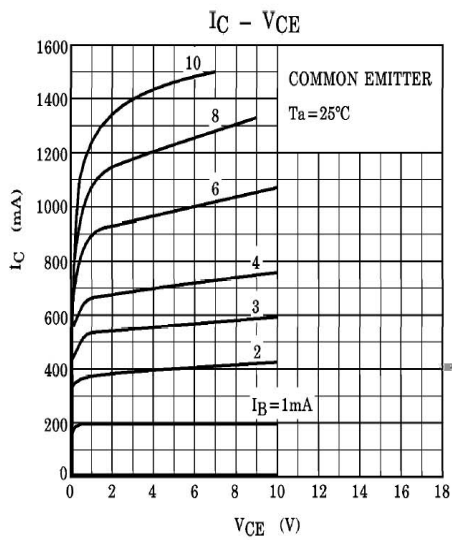


PIN1   Base      PIN 2   Collector      PIN 3   Emitter

|                                    |           |           |
|------------------------------------|-----------|-----------|
| $h_{FE}$ Classifications<br>Symbol | O         | Y         |
| $h_{FE}$ Range                     | 100   200 | 160   320 |

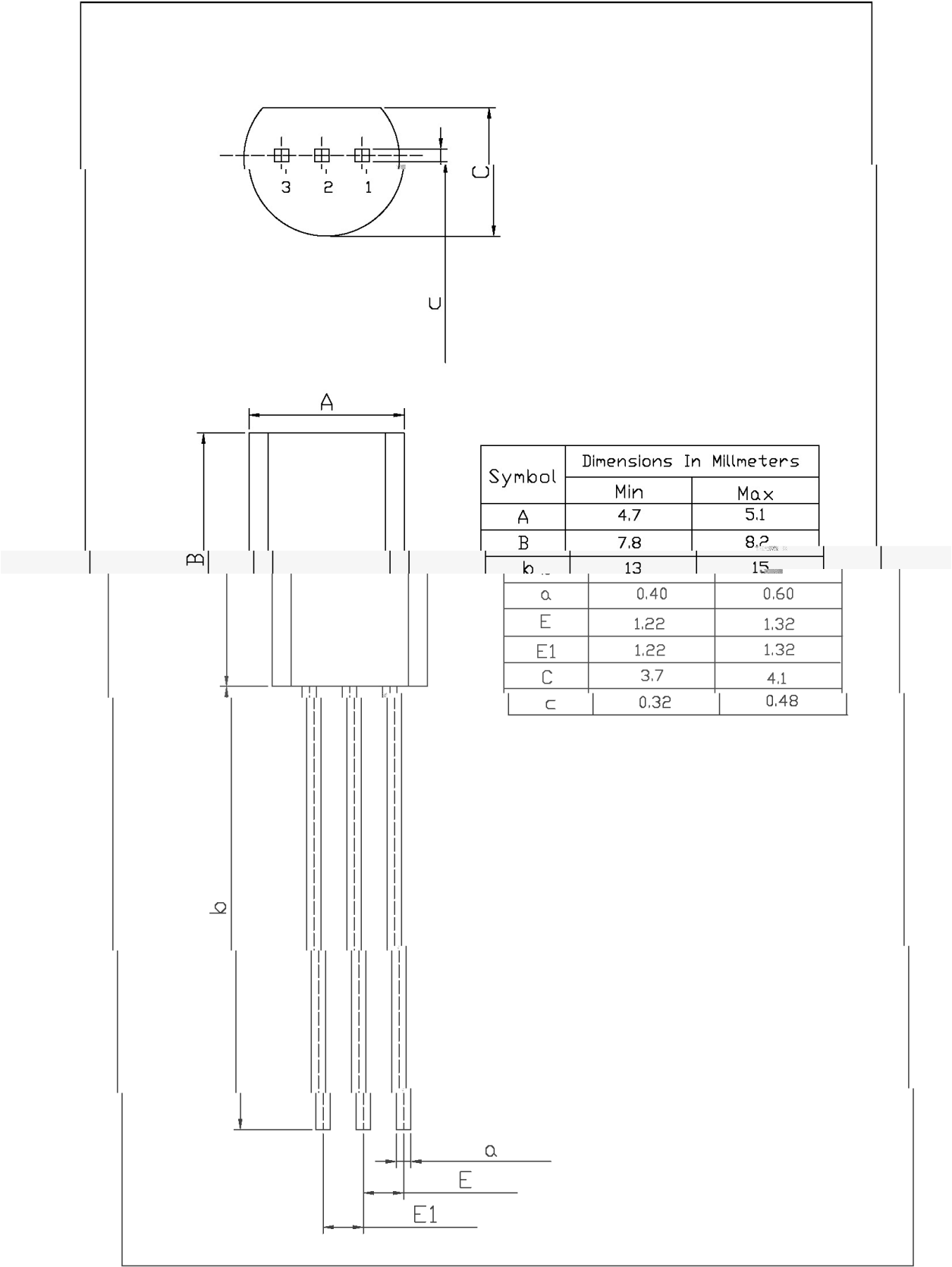
| Parameter                    | Symbol    | Rating  | Unit |
|------------------------------|-----------|---------|------|
| Collector to Base Voltage    | $V_{CBO}$ | 30      | V    |
| Collector to Emitter Voltage | $V_{CEO}$ | 30      | V    |
| Emitter to Base Voltage      | $V_{EBO}$ | 5.0     | V    |
| Collector Current (DC)       | $I_C$     | 1.5     | A    |
| Emitter Current              | $I_E$     | -1.5    | A    |
| Collector Power Dissipation  | $P_C$     | 900     | mW   |
| Junction Temperature         | $T_j$     | 150     |      |
| Storage Temperature Range    | $T_{stg}$ | -55 150 |      |

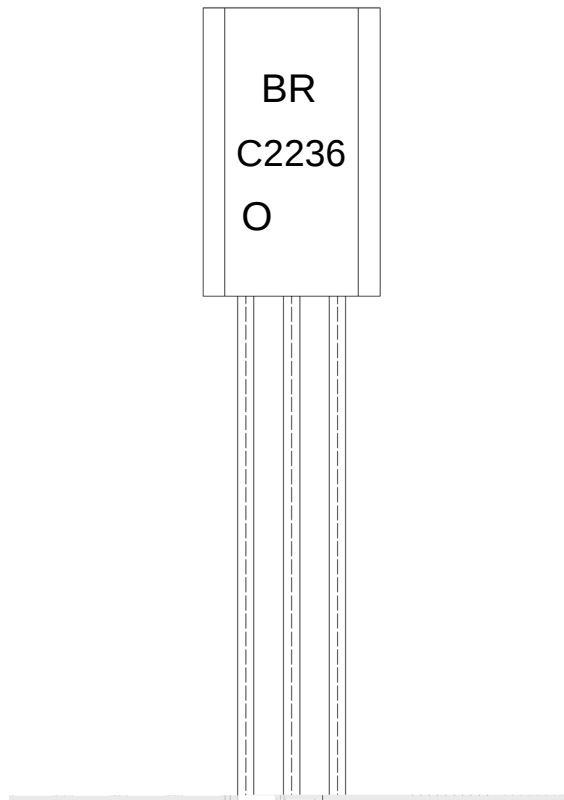
| Parameter                               | Symbol        | Test Conditions                    | Min | Typ | Max | Unit |
|-----------------------------------------|---------------|------------------------------------|-----|-----|-----|------|
| Collector to Emitter Breakdown Voltage  | $V_{CEO}$     | $I_C=10mA$ $I_B=0$                 | 30  |     |     | V    |
| Emitter to Base Breakdown Voltage       | $V_{EBO}$     | $I_E=1.0mA$ $I_C=0$                | 5.0 |     |     | V    |
| Collector Cut-Off Current               | $I_{CBO}$     | $V_{CB}=30V$ $I_E=0$               |     |     | 0.1 | A    |
| Emitter Cut-Off Current                 | $I_{EBO}$     | $V_{EB}=5.0V$ $I_C=0$              |     |     | 0.1 | A    |
| DC Current Gain                         | $h_{FE}$      | $V_{CE}=2.0V$ $I_C=500mA$          | 100 |     | 320 |      |
| Collector to Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=1.5A$ $I_B=0.03A$             |     |     | 2.0 | V    |
| Base to Emitter Voltage                 | $V_{BE}$      | $V_{CE}=2.0V$ $I_C=500mA$          |     |     | 1.0 | V    |
| Transition Frequency                    | $f_T$         | $V_{CE}=2.0V$ $I_C=500mA$          |     | 120 |     | MHz  |
| Collector output capacitance            | $C_{ob}$      | $V_{CB}=10V$ $I_E=0$<br>$f=1.0MHz$ |     |     | 30  | pF   |



T0-92LM

Unit: mm





BR:

C2236

O:  $h_{FE}$

\*\*\*\*

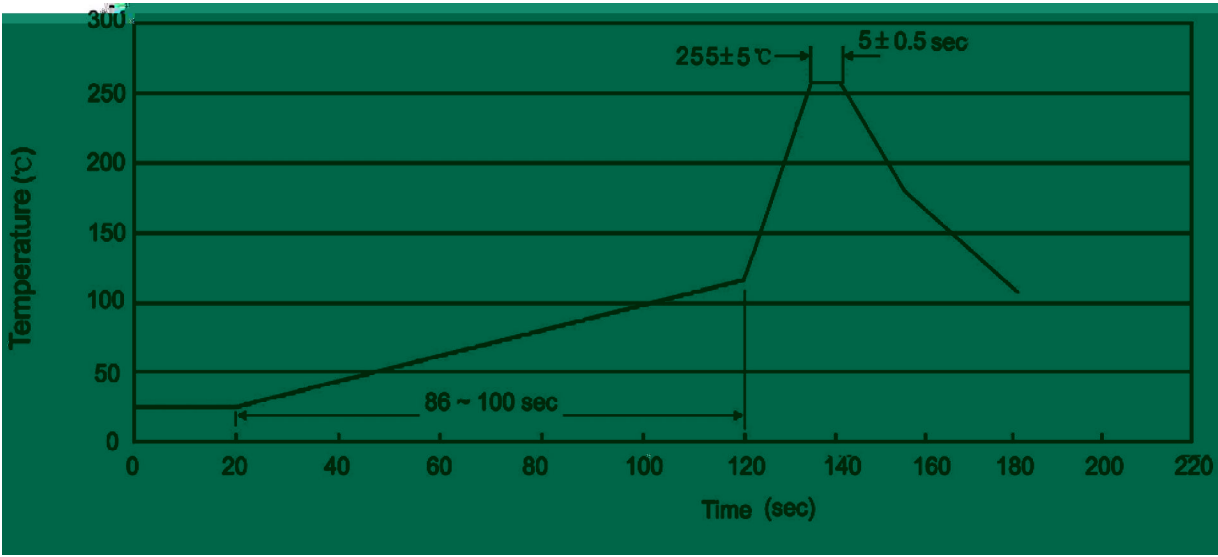
Note:

BR: Company Code.

C2236: Product Type.

O:  $h_{FE}$  Classifications Symbol

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



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.

270±5

10±1 sec.

Temp.:270±5

Time:10±1 sec

/ BULK

| Package Type | Units |  |  |  |  | Dimension |  | (unit mm3) |
|--------------|-------|--|--|--|--|-----------|--|------------|
|              |       |  |  |  |  |           |  |            |
|              |       |  |  |  |  |           |  |            |

/ AMMO

| Package Type | Units |  |  |  |  | Dimension |  | (unit mm3) |
|--------------|-------|--|--|--|--|-----------|--|------------|
|              |       |  |  |  |  |           |  |            |
|              |       |  |  |  |  |           |  |            |