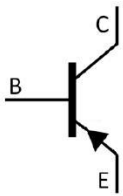


Silicon PNP transistor in a TO-92 Plastic Package.

High  $P_C$  and  $I_C$ .

Medium power amplifier applications.

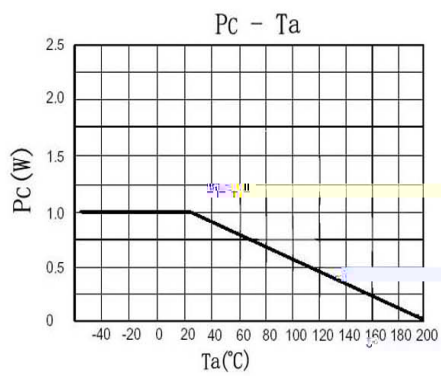
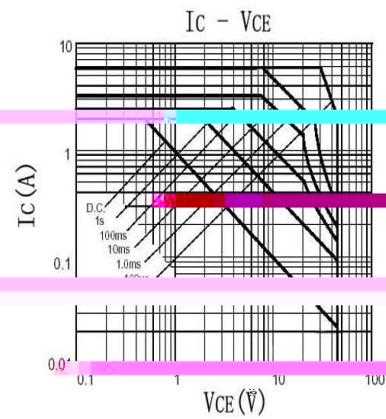
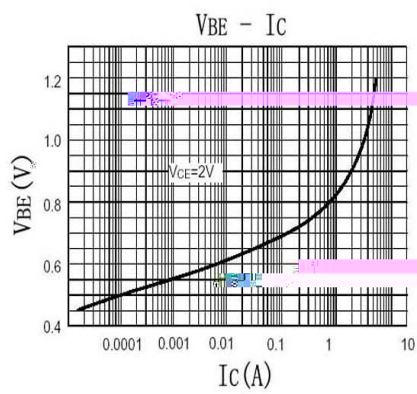
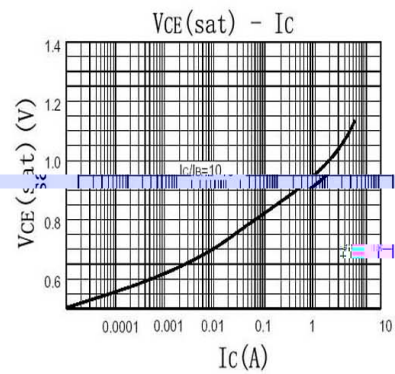
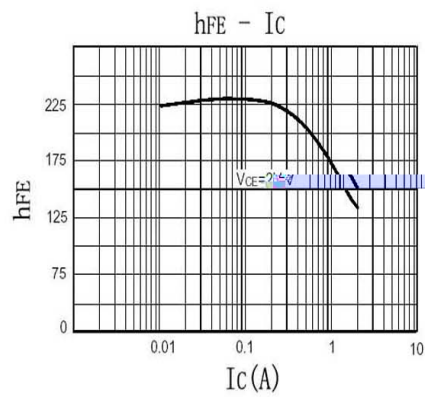
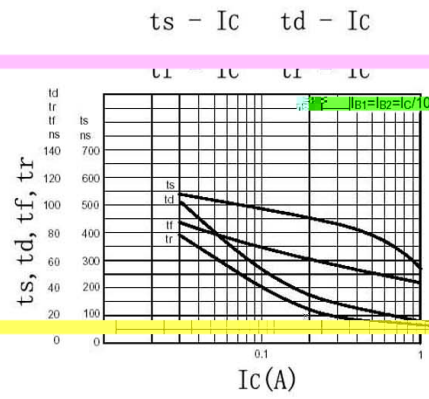
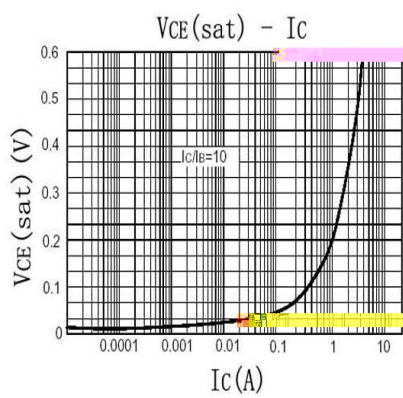


PIN1 Collector      PIN 2 Base      PIN 3 Emitter

See Marking Instructions.

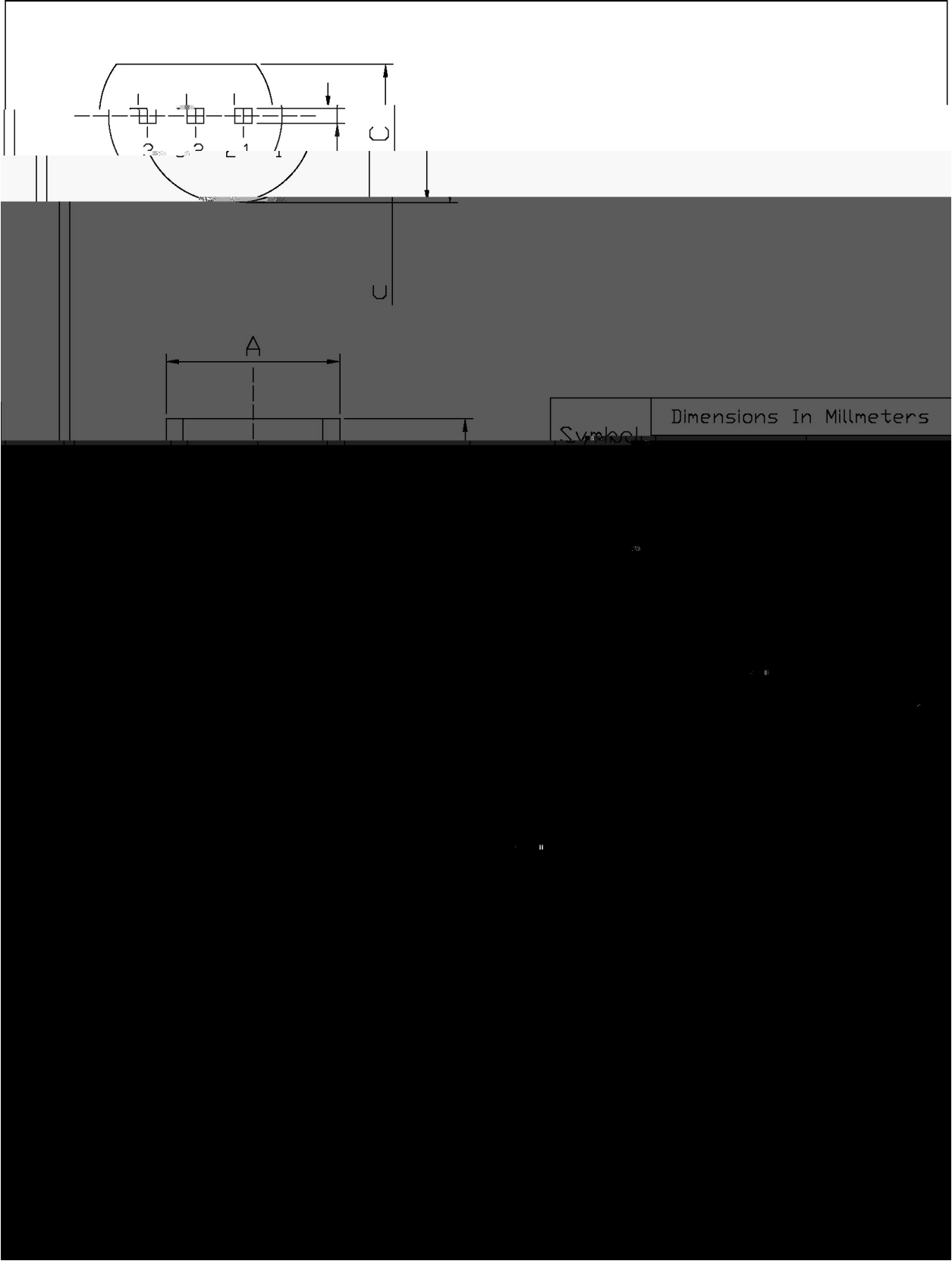
| Parameter                          | Symbol    | Rating  | Unit |
|------------------------------------|-----------|---------|------|
| Collector to Base Voltage          | $V_{CBO}$ | -60     | V    |
| Collector to Emitter Voltage       | $V_{CEO}$ | -45     | V    |
| Emitter to Base Voltage            | $V_{EBO}$ | -5.0    | V    |
| Collector Current - Continuous     | $I_C$     | -2.0    | A    |
| Peak Collector Current- Continuous | $I_{CM}$  | -6.0    | A    |
| Collector Power Dissipation        | $P_C$     | 1.0     | W    |
| Junction Temperature               | $T_J$     | 150     | °C   |
| Storage Temperature Range          | $T_{stg}$ | -55~150 | °C   |

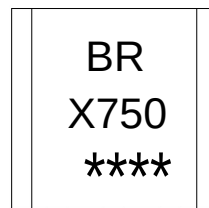
| Parameter                               | Symbol           | Test Conditions                                                                  | Min  | Typ   | Max   | Unit |
|-----------------------------------------|------------------|----------------------------------------------------------------------------------|------|-------|-------|------|
| Collector to Base Breakdown Voltage     | $V_{CBO}$        | $I_C = -100\text{ A}$                                                            | -60  |       |       | V    |
| Collector to Emitter Breakdown Voltage  | $V_{CEO}$        | $I_C = -10\text{mA}$                                                             | -45  |       |       | V    |
| Emitter to Base Breakdown Voltage       | $V_{EBO}$        | $I_E = -100\text{ A}$                                                            | -5.0 |       |       | V    |
| Collector Cut-Off Current               | $I_{CBO}$        | $V_{CB} = -45\text{V}$ $I_E = 0$                                                 |      |       | -0.1  | A    |
| Emitter Cut-Off Current                 | $I_{EBO}$        | $V_{EB} = -4.0\text{V}$ $I_C = 0$                                                |      |       | -0.1  | A    |
| DC Current Gain                         | $h_{FE}$         | $I_C = -500\text{mA}$ $V_{CE} = -2.0\text{V}$                                    | 100  |       | 300   |      |
| Collector to Emitter Saturation Voltage | $V_{CE(sat)(1)}$ | $I_C = -1.0\text{A}$ $I_B = -100\text{mA}$                                       |      | -0.15 | -0.3  | V    |
|                                         | $V_{CE(sat)(2)}$ | $I_C = -2.0\text{A}$ $I_B = -200\text{mA}$                                       |      | -0.28 | -0.5  | V    |
| Base to Emitter Saturation Voltage      | $V_{BE(sat)}$    | $I_C = -1.0\text{A}$ $I_B = -100\text{mA}$                                       |      | -0.9  | -1.25 | V    |
| Transition Frequency                    | $f_T$            | $V_{CE} = -5.0\text{V}$ $I_C = -100\text{mA}$<br>$f = 100\text{MHz}$             | 100  | 140   |       | MHz  |
| Output Capacitance                      | $C_{ob}$         | $V_{CB} = -10\text{V}$ $f = 1.0\text{MHz}$                                       |      |       | 30    | pF   |
| Turn-On Time                            | $T_{on}$         | $V_{CC} = -10\text{V}$ $I_C = -500\text{mA}$<br>$I_{B1} = I_{B2} = -50\text{mA}$ |      | 40    |       | ns   |
| Turn-Off Time                           | $T_{off}$        | $V_{CC} = -10\text{V}$ $I_C = -500\text{mA}$<br>$I_{B1} = I_{B2} = -50\text{mA}$ |      | 450   |       | ns   |



T0-92

Unit: mm



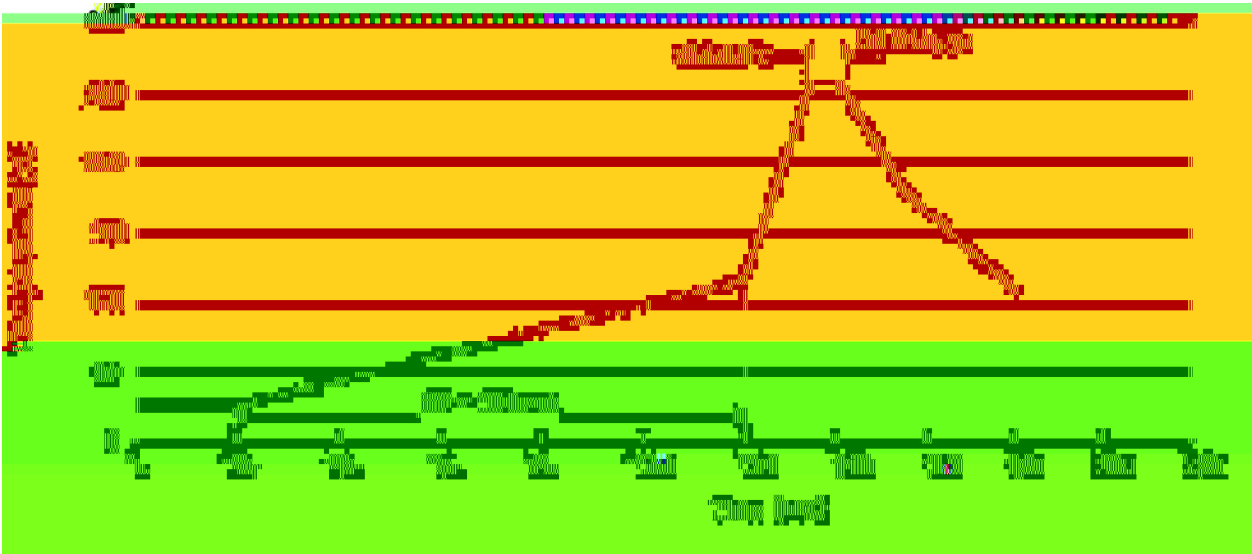


Note:

BR: Company Code.

X750: Product Type.

\*\*\*\*: 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<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-92                | 1,000            | 10                    | 10,000                 | 5                            | 50,000                 | 135×190                    | 237×172×102 | 560×245×195 |
|                      | 1,000            | 10                    | 10,000                 | 10                           | 100,000                | 135×190                    | 237×172×102 | 560×245×375 |

/ 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 |                            |