

**/ Descriptions**

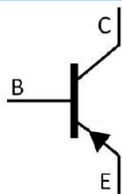
Silicon PNP transistor in a TO-92 Plastic Package.

**/ Features**

High voltage. HF Product.

**/ Applications**

High voltage control circuit.

**/ Equivalent Circuit****/ Pinning**

PIN1 Collector      PIN 2 Base      PIN 3 Emitter

**/ hFE Classifications & Marking**

See Marking Instructions.

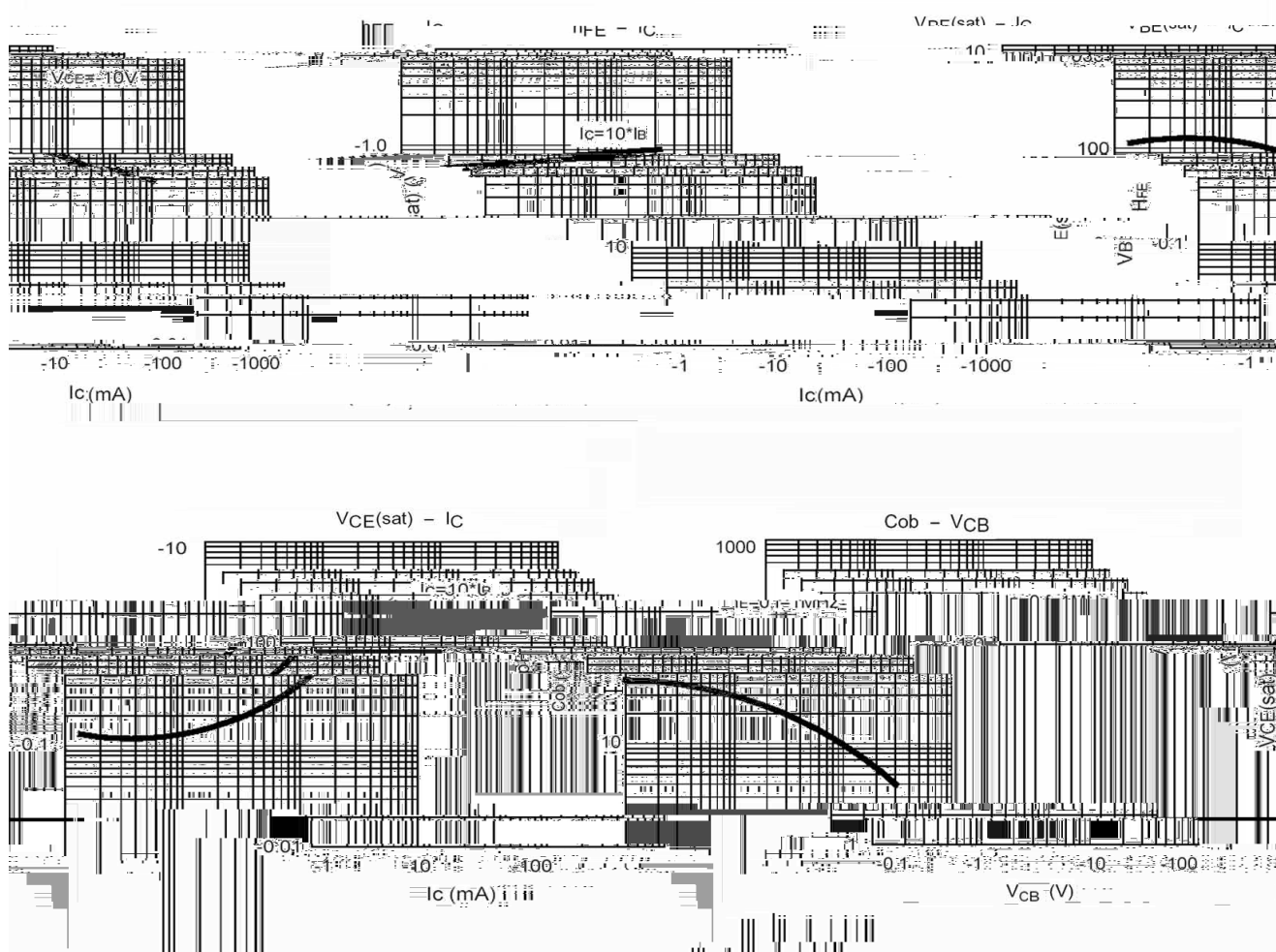
## / Absolute Maximum Ratings(Ta=25 )

| Parameter                      | Symbol    | Rating  | Unit |
|--------------------------------|-----------|---------|------|
| Collector to Base Voltage      | $V_{CBO}$ | -400    | V    |
| Collector to Emitter Voltage   | $V_{CEO}$ | -400    | V    |
| Emitter to Base Voltage        | $V_{EBO}$ | -5.0    | V    |
| Collector Current - Continuous | $I_C$     | -300    | mA   |
| Collector Power Dissipation    | $P_C$     | 625     | mW   |
| Junction Temperature           | $T_j$     | 150     |      |
| Storage Temperature Range      | $T_{stg}$ | -55 150 |      |

## / Electrical Characteristics(Ta=25 )

| Parameter                               | Symbol           | Test Conditions                               | Min  | Typ | Max   | Unit    |
|-----------------------------------------|------------------|-----------------------------------------------|------|-----|-------|---------|
| Collector to Base Breakdown Voltage     | $V_{CBO}$        | $I_C = -100\mu A$ $I_E = 0$                   | -400 |     |       | V       |
| Collector to Emitter Breakdown Voltage  | $V_{CEO}$        | $I_C = -1.0mA$ $I_B = 0$                      | -400 |     |       | V       |
| Emitter to Base Breakdown Voltage       | $V_{EBO}$        | $I_E = -100\mu A$ $I_C = 0$                   | -5.0 |     |       | V       |
| Collector Cut-Off Current               | $I_{CBO}$        | $V_{CB} = -300V$ $I_E = 0$                    |      |     | -0.1  | $\mu A$ |
| Collector Cut-Off Current               | $I_{CES}$        | $V_{CE} = -400V$ $V_{BE} = 0$                 |      |     | -1    | $\mu A$ |
| Emitter Cut-Off Current                 | $I_{EBO}$        | $V_{EB} = -4.0V$ $I_C = 0$                    |      |     | -0.1  | $\mu A$ |
| DC Current Gain                         | $h_{FE(1)}$      | $V_{CE} = -10V$ $I_C = -10mA$                 | 80   |     | 300   |         |
|                                         | $h_{FE(2)}$      | $V_{CE} = -10V$ $I_C = -1.0mA$                | 70   |     |       |         |
|                                         | $h_{FE(3)}$      | $V_{CE} = -10V$ $I_C = -100mA$                | 40   |     |       |         |
| Collector to Emitter Saturation Voltage | $V_{CE(sat)(1)}$ | $I_C = -10mA$ $I_B = -1.0mA$                  |      |     | -0.2  | V       |
|                                         | $V_{CE(sat)(2)}$ | $I_C = -50mA$ $I_B = -5.0mA$                  |      |     | -0.3  | V       |
| Base to Emitter Saturation Voltage      | $V_{BE(sat)}$    | $I_C = -10mA$ $I_B = -1.0mA$                  |      |     | -0.75 | V       |
| Transition Frequency                    | $f_T$            | $V_{CE} = -5.0V$ $I_C = -10mA$<br>$f = 30MHz$ | 50   |     |       | MHz     |

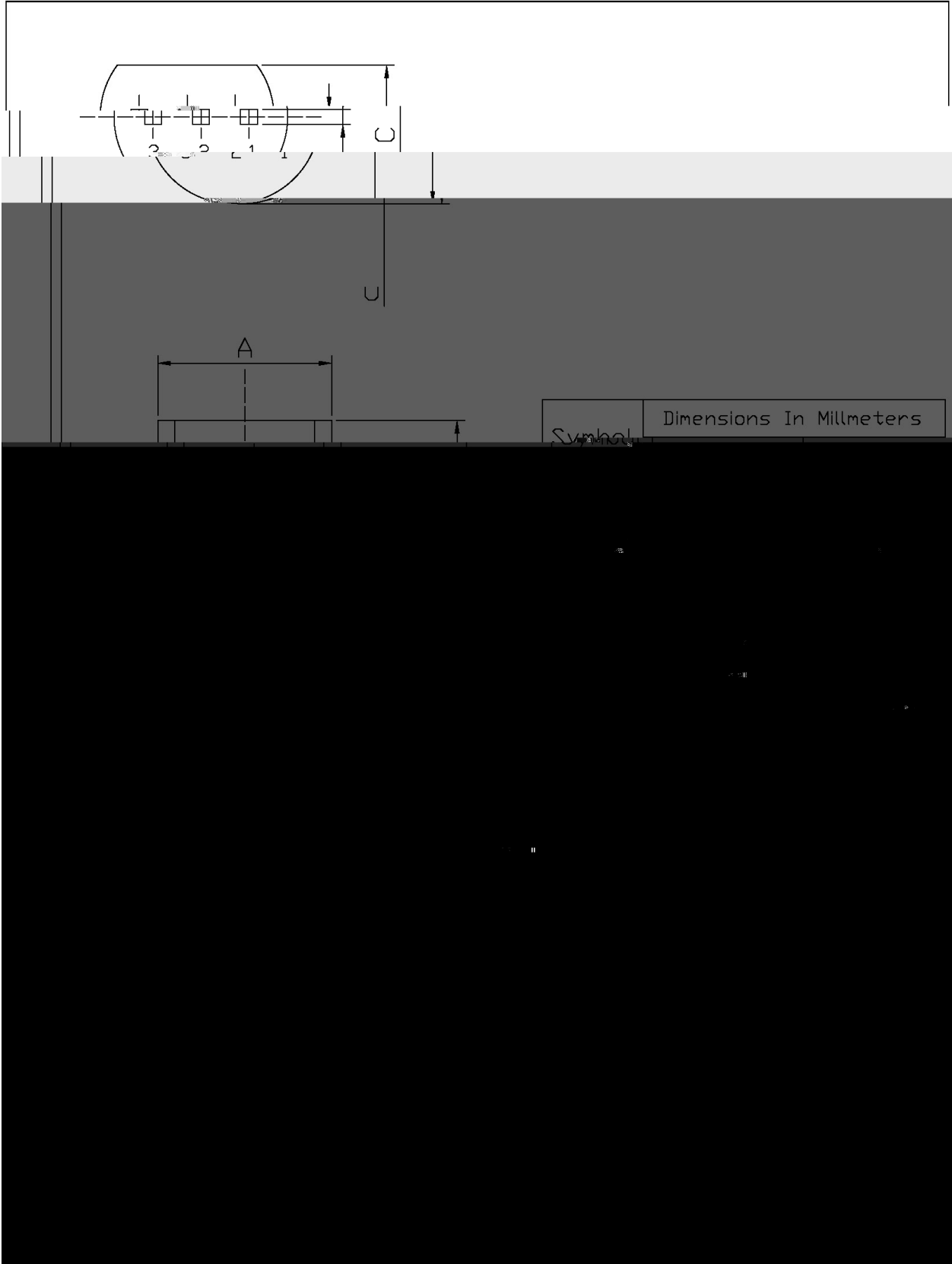
/ Electrical Characteristic Curve



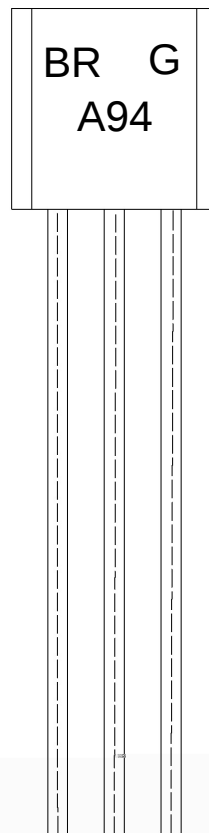
/ Package Dimensions

TO-92

Unit: mm



/ Marking Instructions



Note:

BR: Company Code.

G: Halogen Free Product

A94: Product Type.

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

