

## / Descriptions

Silicon NPN transistor in a TO-92 Plastic Package.

## / Features

High power gain.

## / Applications

High frequency amplifier applications.

## / Equivalent Circuit



## / Pinning



PIN1 Base      PIN 2 Collector      PIN 3 Emitter

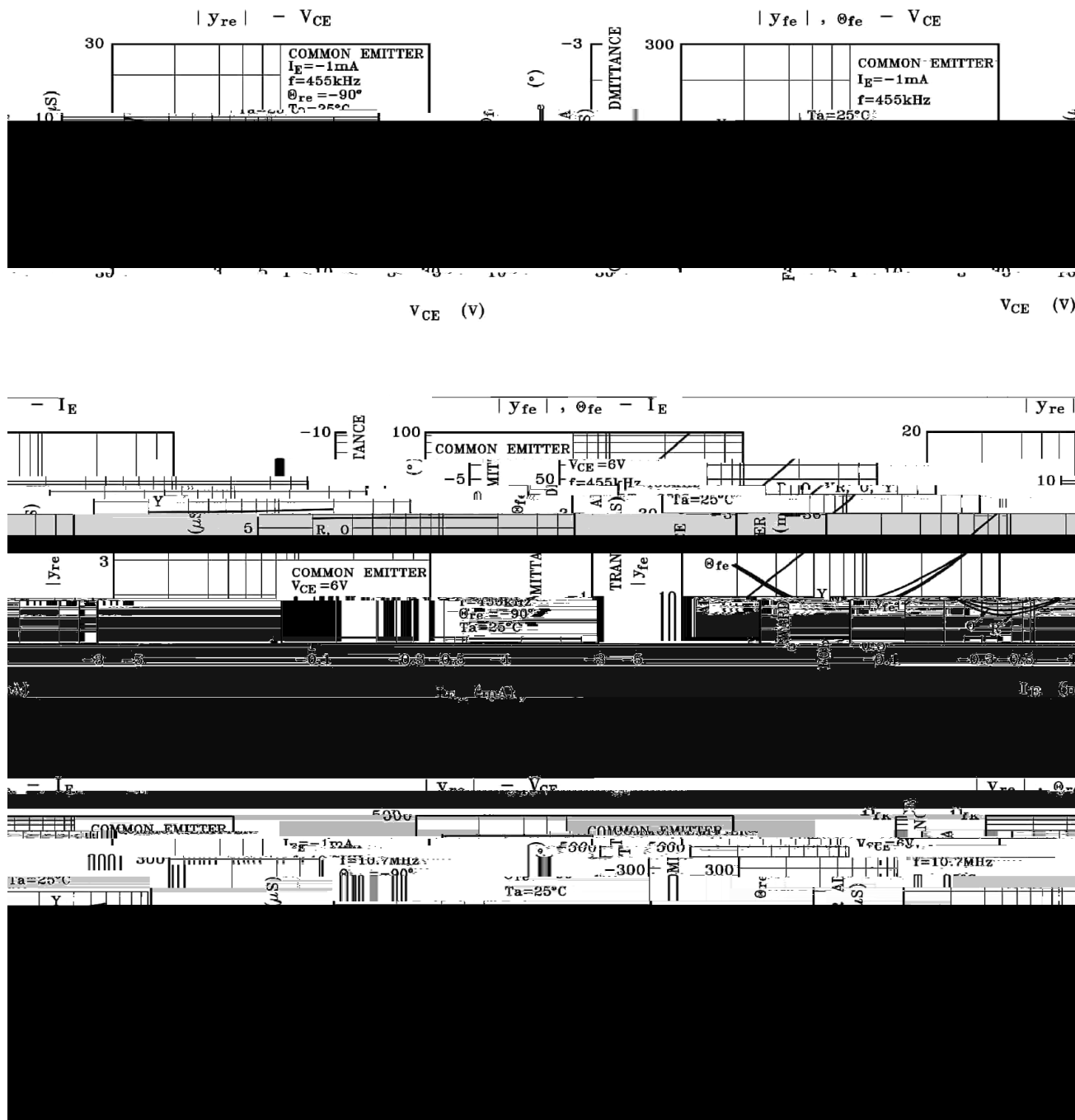
## / hFE Classifications & Marking

|                                           |       |        |         |
|-------------------------------------------|-------|--------|---------|
| h <sub>FE</sub> Classifications<br>Symbol | R     | O      | Y       |
| h <sub>FE</sub> Range                     | 40~80 | 70~140 | 120~240 |

| Parameter                      | Symbol    | Rating  | Unit |
|--------------------------------|-----------|---------|------|
| Collector to Base Voltage      | $V_{CBO}$ | 35      | V    |
| Collector to Emitter Voltage   | $V_{CEO}$ | 30      | V    |
| Emitter to Base Voltage        | $V_{EBO}$ | 4.0     | V    |
| Collector Current - Continuous | $I_C$     | 50      | mA   |
| Emitter Current - Continuous   | $I_E$     | -50     | mA   |
| Collector Power Dissipation    | $P_C$     | 625     | 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 | $I_{CBO}$ | $V_{CB}=35V$ $I_E=0$ |     |     | 0.1 | A    |
| Emitter Cut-Off Current   | $I_{EBO}$ | $V_{EB}=4.0V$ $I_C$  |     |     |     |      |

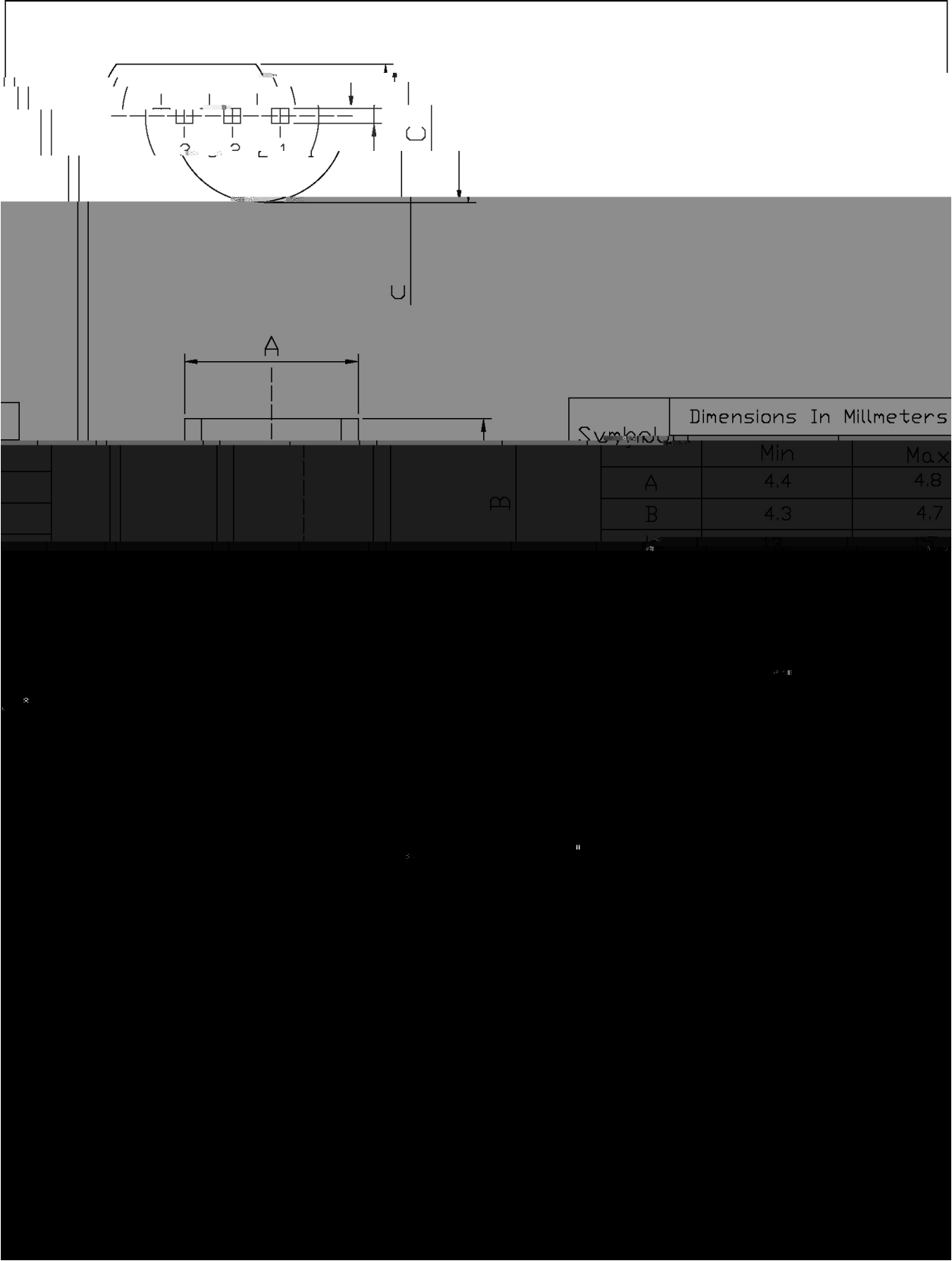
/ Electrical Characteristic Curve



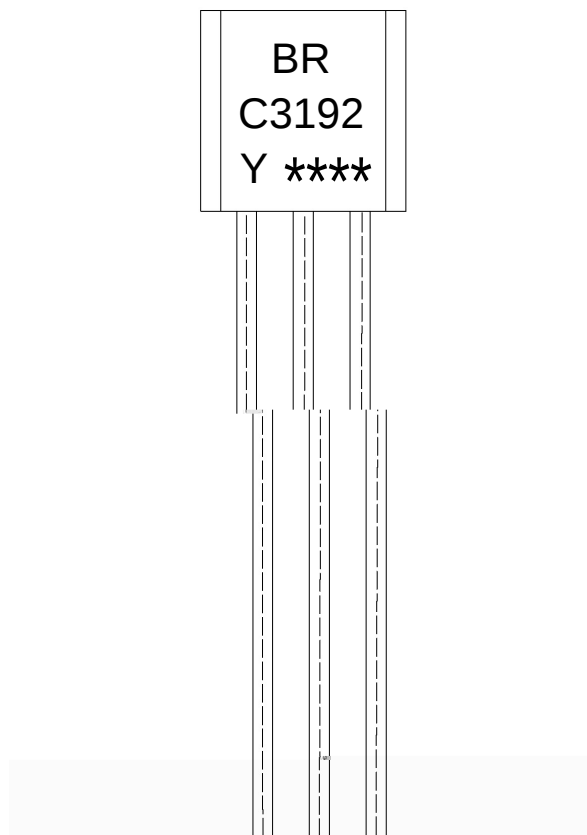
/ Package Dimensions

T0-92

Unit: mm



**/ Marking Instructions**



Note:

BR: Company Code.

C3192: Product Type.

Y:  $h_{FE}$  Classifications Symbol

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

