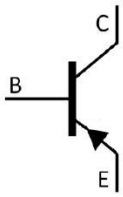
TO-92 PNP Silicon PNP transistor in a TO-92 Plastic Package.

High DC current gain, excellent $h_{FE}$ linearity, low saturation voltage

,

Strobo flash, medium power amplifier applications.



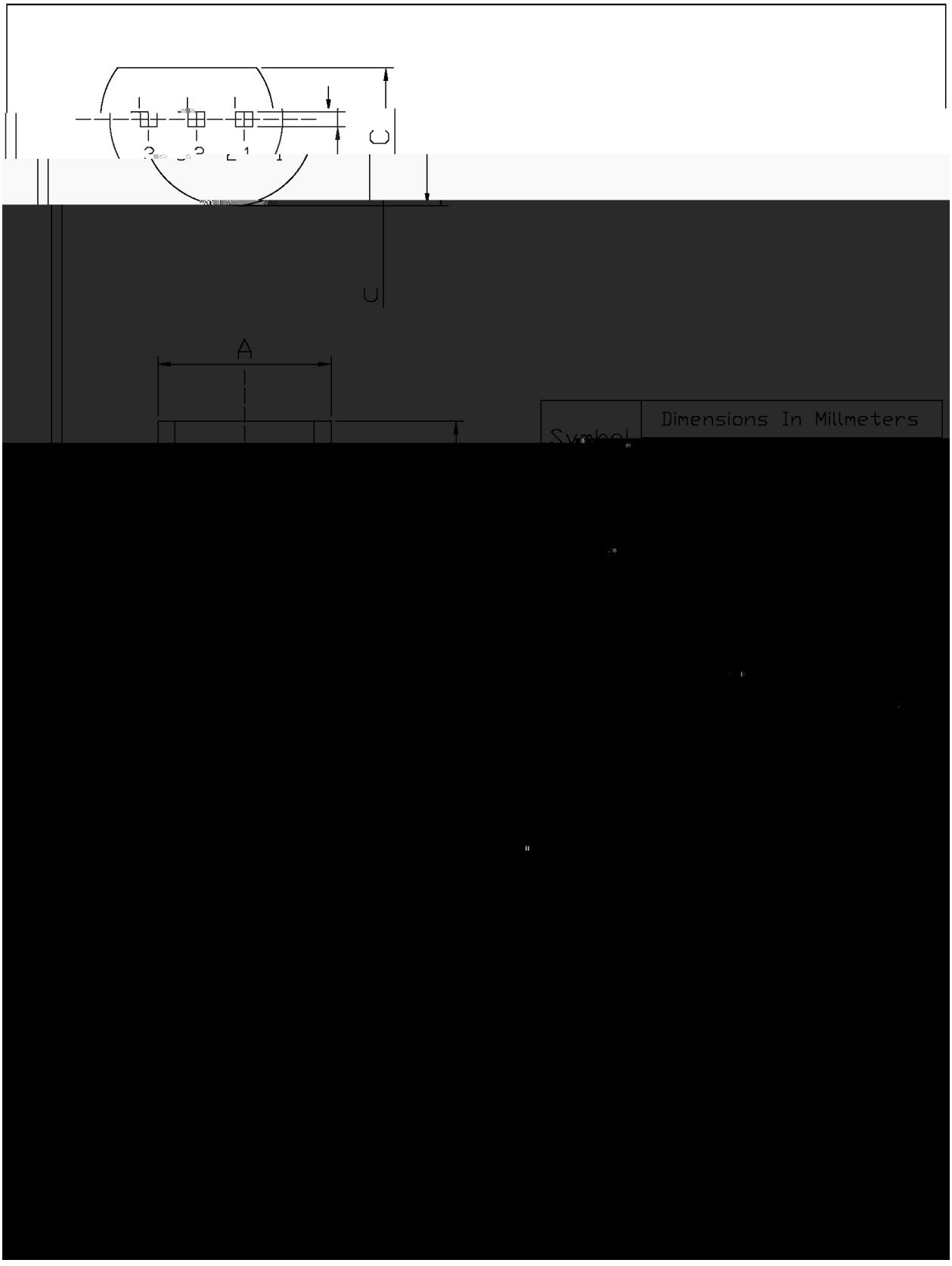

PIN1 Base PIN 2 Collector PIN 3 Emitter

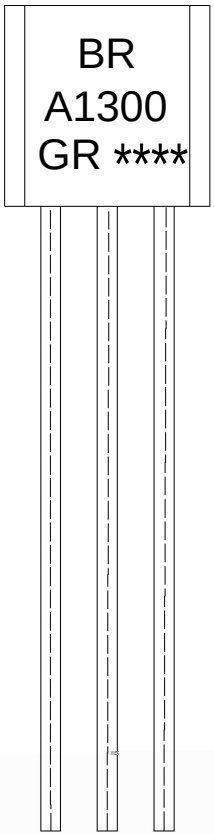
| $h_{FE}$ Classifications Symbol | Y | GR | BL |
|---|---|---|---|
| $h_{FE}$ Range | 140~280 | 200~400 | 300~600 |

| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Collector to Base Voltage | $V_{CBO}$ | -20 | V |
| Collector to Emitter Voltage | $V_{CEO}$ | -10 | V |
| Emitter to Base Voltage | $V_{EBO}$ | -6.0 | V |
| Collector Current - Continuous | $I_C$ | -2.0 | A |
| Collector Current – Continuous(Pulse) | $I_{CP}$ | -5.0 | A |
| Base Current - Continuous | $I_B$ | -2.0 | A |
| Collector Power Dissipation | $P_C$ | 750 | 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 | -10 | | | V |
| Emitter to Base Breakdown Voltage | $V_{EBO}$ | $I_E$=-1.0mA $I_C$=0 | -6.0 | | | V |
| Collector Cut-Off Current | $I_{CBO}$ | $V_{CB}$=-20V $I_E$=0 | | | -0.1 | μA |
| Emitter Cut-Off Current | $I_{EBO}$ | $V_{EB}$=-6.0V $I_C$=0 | | | -0.1 | μA |
| DC Current Gain | $h_{FE(1)}$ | $V_{CE}$=-1.0V $I_C$=-0.5A | 140 | | 600 | |
| | $h_{FE(2)}$ | $V_{CE}$=-1.0V $I_C$=-4.0A | 60 | 120 | | |
| Collector to Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C$=-2.0A $I_B$=-50mA | | -0.2 | -0.5 | V |
| Base to Emitter Voltage | $V_{BE}$ | $I_C$=-2.0A $V_{CE}$=-1.0V | | -0.83 | -1.5 | V |
| Transition Frequency | $f_T$ | $V_{CE}$=-1.0V $I_C$=-0.5A | | 140 | | MHz |
| Collector Output Capacitance | $C_{ob}$ | $V_{CB}$=-10V f=1.0MHz $I_E$=0 | | 50 | | pF |

TO-92 Unit: mm






BR:

A1300

GR: $h_{FE}$

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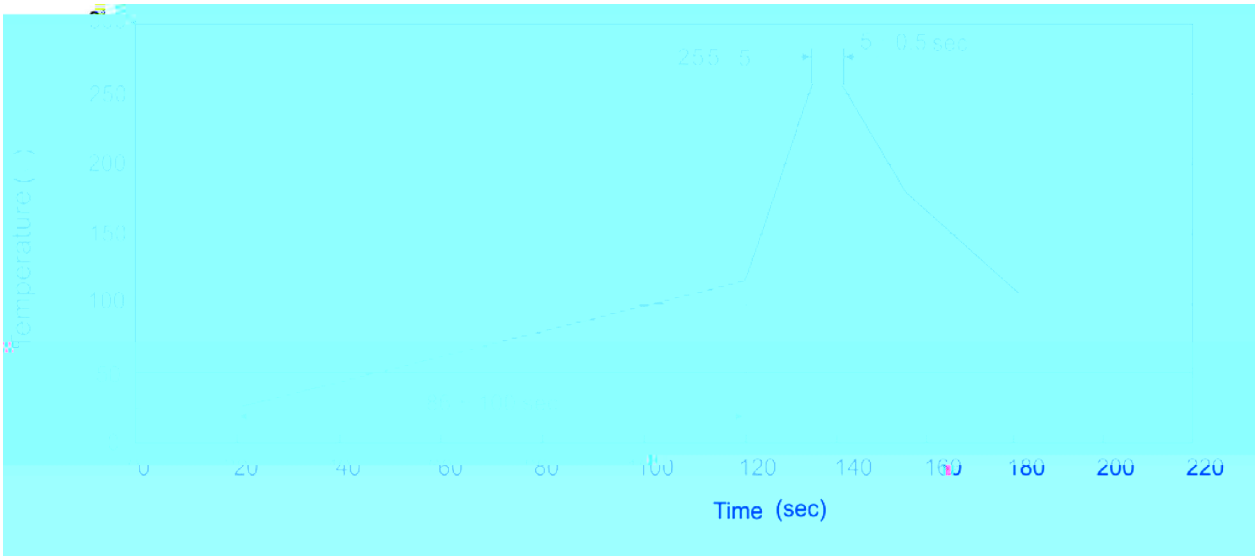
Note:

| | |
|---|---|
| BR: | Company Code. |
| A1300: | Product Type. |
| GR: | $h_{FE}$ Classifications Symbol |
| ****: | Lot No. Code,code change with Lot No. |




| | | | |
|---|---|---|---|
| 1 | 25 150 | 60 90sec; | Note:<br>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 mm3) |
|---|---|---|---|---|---|---|---|---|
| | Units/Bag<br>/ | Bags/Inner Box<br>/ | Units/Inner Box<br>/ | Inner Boxes/Outer Box<br>/ | Units/Outer Box<br>/ | Bag | Inner Box | Outer Box |