## / Descriptions

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

## / Features

VCE(sat) , ,$h_{FE}$

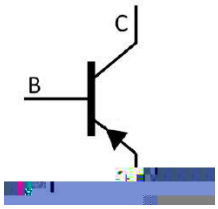
Low saturation voltage, excellent $h_{FE}$ linearity and high $h_{FE}$.

## / Applications

3 , ,

Output stage of 3 watts audio amplifier, regulator, DC-DC converter and relay driver.

## / EquivaTD0n30cup//3-4.0m)-t5.7( )]TETf77 0B2 0495 rg57434 68.84824 18ref62434 68.16 469





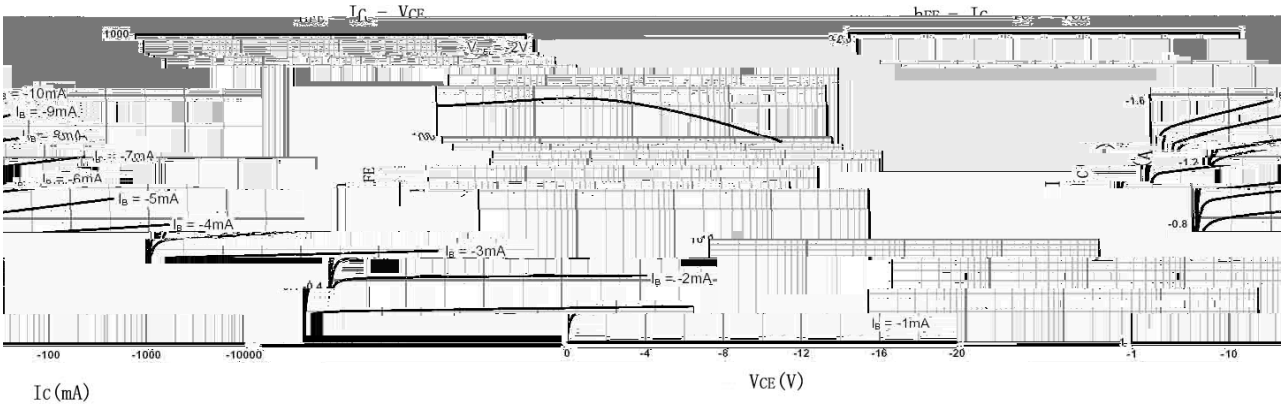

PIN1 Base PIN 2 Collector PIN 3 Emitter

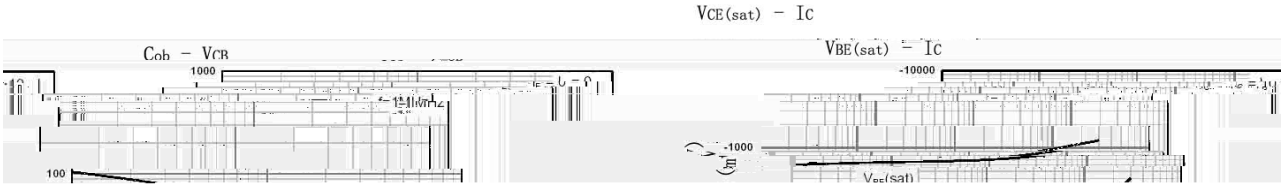
## / hFE Classifications & Marking

| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Collector to Base Voltage | $V_{CBO}$ | -40 | V |
| Collector to Emitter Voltage | $V_{CEO}$ | -30 | V |
| Emitter to Base Voltage | $V_{EBO}$ | -5.0 | V |
| Collector Current - Continuous | $I_C$ | -3.0 | A |
| Collector Power Dissipation | $P_C$ | 1.0 | W |
| Junction Temperature | $T_j$ | 150 | |
| Storage Temperature Range | $T_{stg}$ | -55 150 | |

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Collector Cut-Off Current | $I_{CBO}$ | $V_{CB}$=-30V $I_E$=0 | | | -1.0 | μA |
| Emitter Cut-Off Current | $I_{EBO}$ | $V_{EB}$=-3.0V $I_C$=0 | | | -1.0 | μA |
| DC Current Gain | $h_{FE(1)}$ | $V_{CE}$=-2.0V $I_C$=-1.0A | 60 | 160 | 400 | |
| | $h_{FE(2)}$ | $V_{CE}$=-2.0V $I_C$=-20mA | 30 | 220 | | |
| Collector to Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C$=-2.0A $I_B$=-0.2A | | -0.3 | -0.5 | V |
| Base to Emitter Saturation Voltage | $V_{BE(sat)}$ | $I_C$= - 2 . 0 A I | | | | |

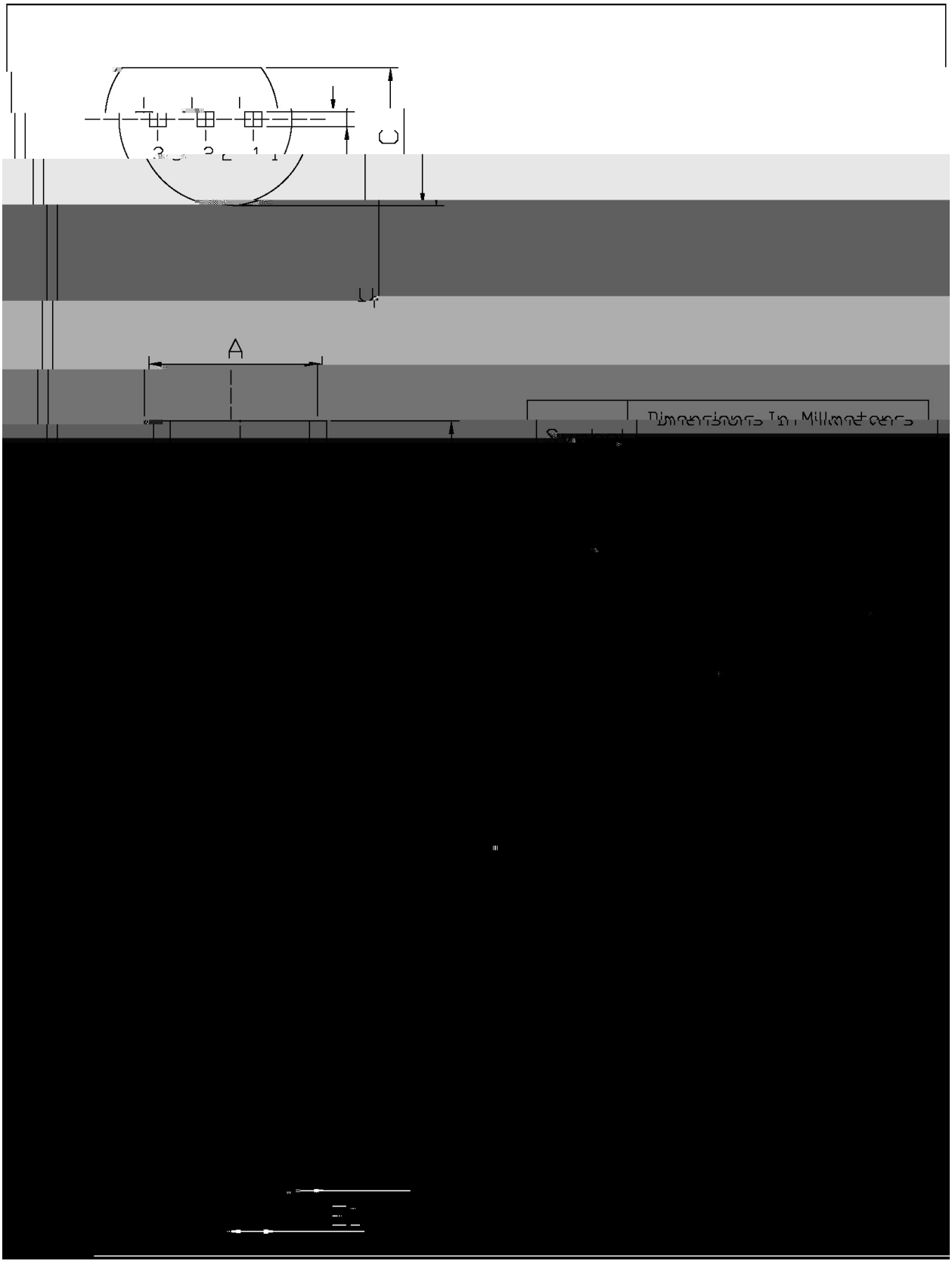
## / Electrical Characteristic Curve



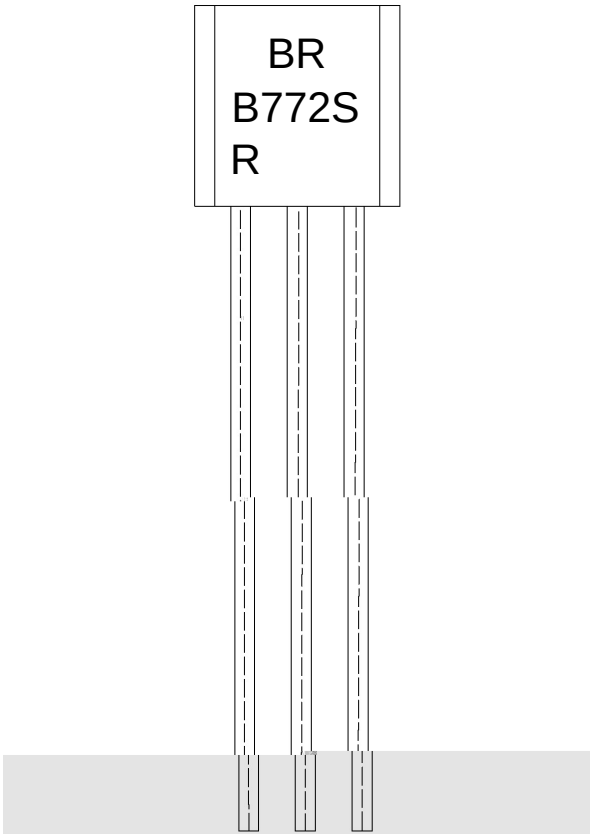



## / Package Dimensions

TO-92 Unit: mm



## / Marking Instructions




BR:

B772S

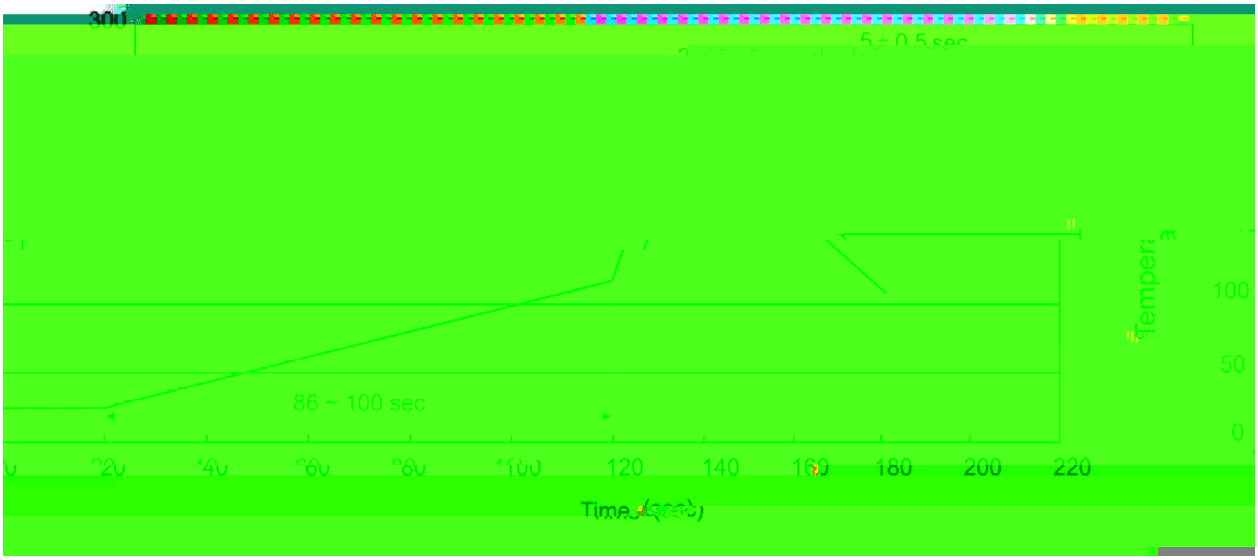
R: $h_{FE}$

****

Note:

| | |
|---|---|
| BR: | Company Code. |
| B772S: | Product Type. |
| R: | $h_{FE}$ Classifications Symbol |
| ****: | Lot No. Code,code change with Lot No. |

## ( ) / Temperature Profile for Dip Soldering(Pb-Free)




| | | | | |
|---|---|---|---|---|
| | | | | Note: |
| 1 | 25 | 150 | 60 90sec; | 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. |

## / Resistance to Soldering Heat Test Conditions

| | | | |
|---|---|---|---|
| 270±5 | 10±1 sec. | Temp:270±5 | Time:10±1 sec |

## / Packaging SPEC.

/ BULK

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

/ AMMO

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

## / Notices