

**/ Descriptions**

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

**/ Features**

$V_{CE(sat)}$  ,  $h_{FE}$   
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.

**/ Equivalents**      TD0n30cup//3-4.0m)-t5.7( )TET077 02 05 rg57434 68.0404 18ref62434 68.16 46



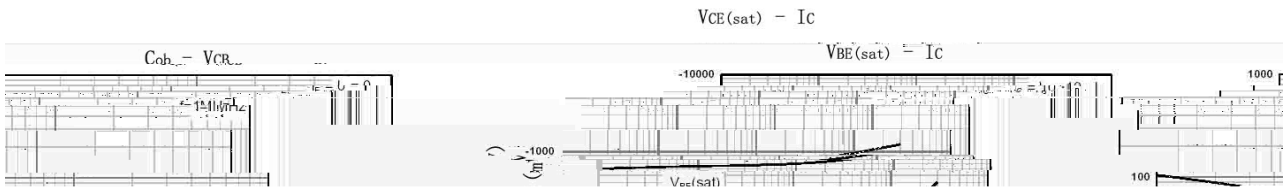
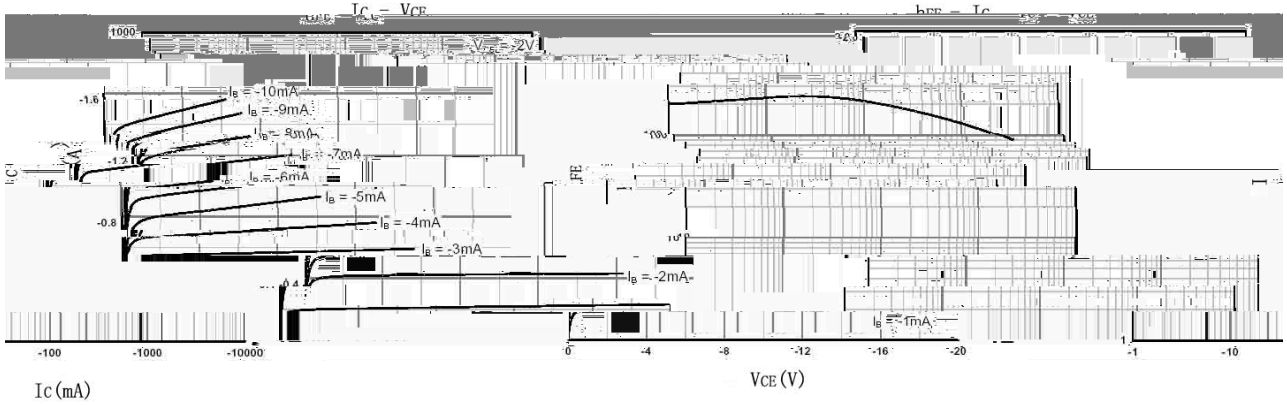
PIN1 Base      PIN 2 Collector      PIN 3 Emitter

**/ 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	$\mu A$
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB}=-3.0V$ $I_C=0$			-1.0	$\mu A$
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		

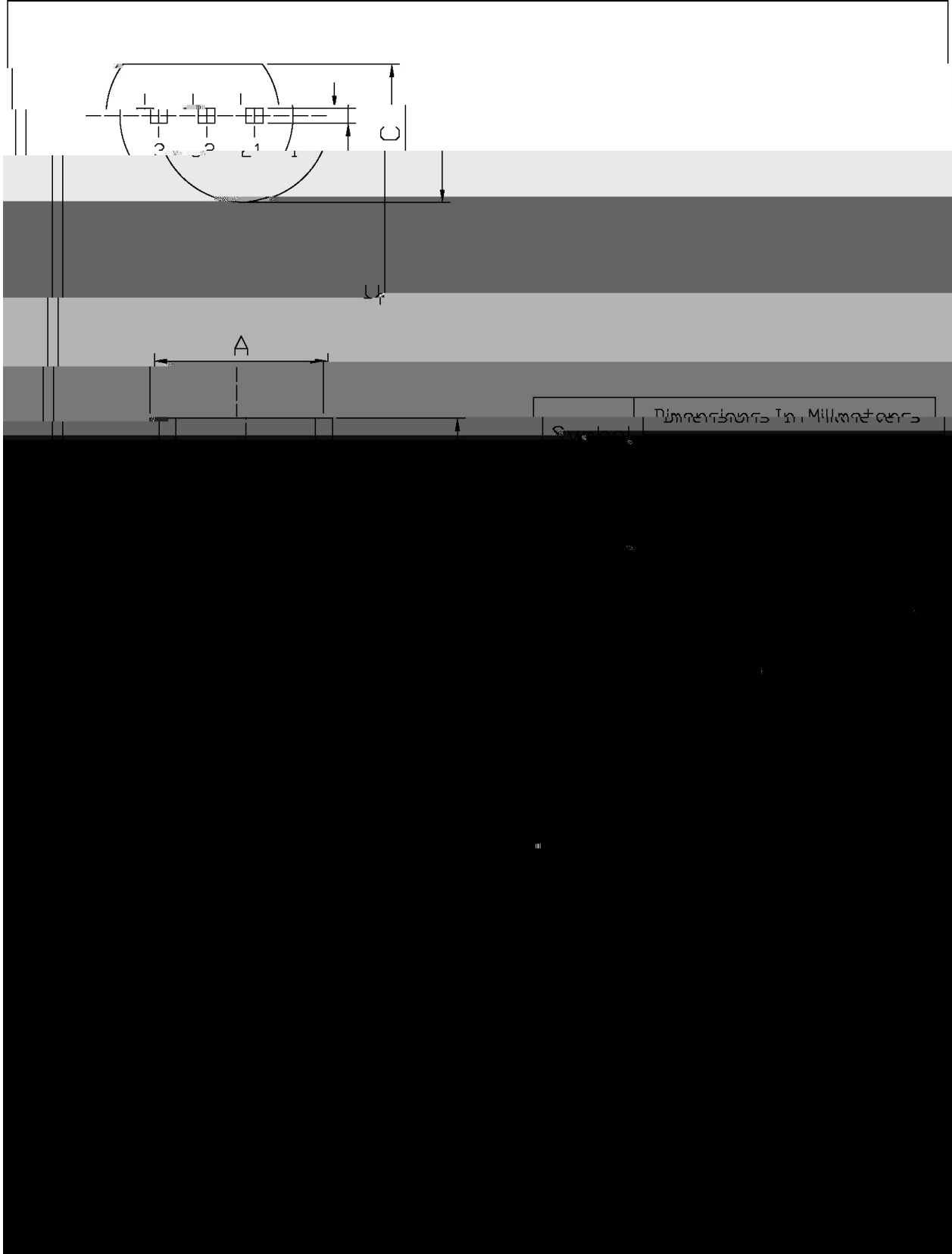
**/ Electrical Characteristic Curve**



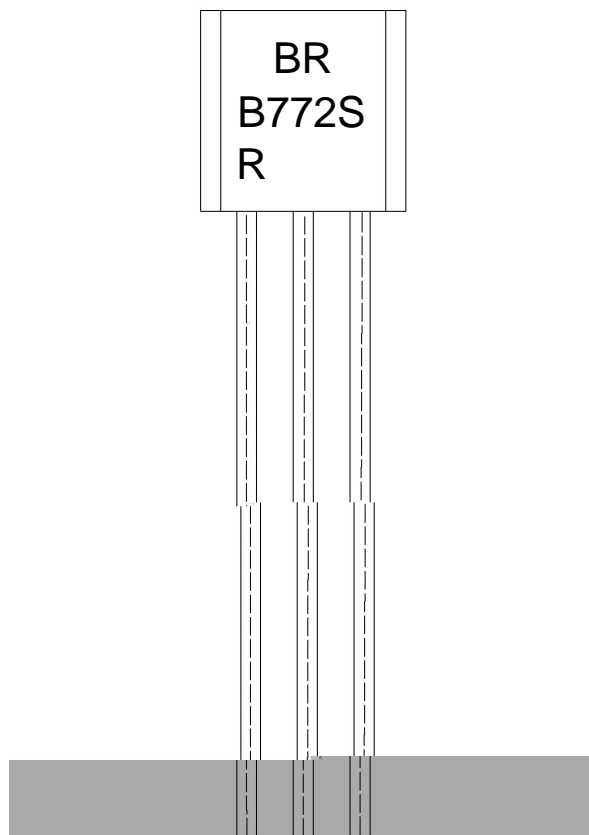
/ Package Dimensions

TO-92

Unit: mm



/ Marking Instructions



BR:

B772S

R:  $h_{FE}$

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Note:

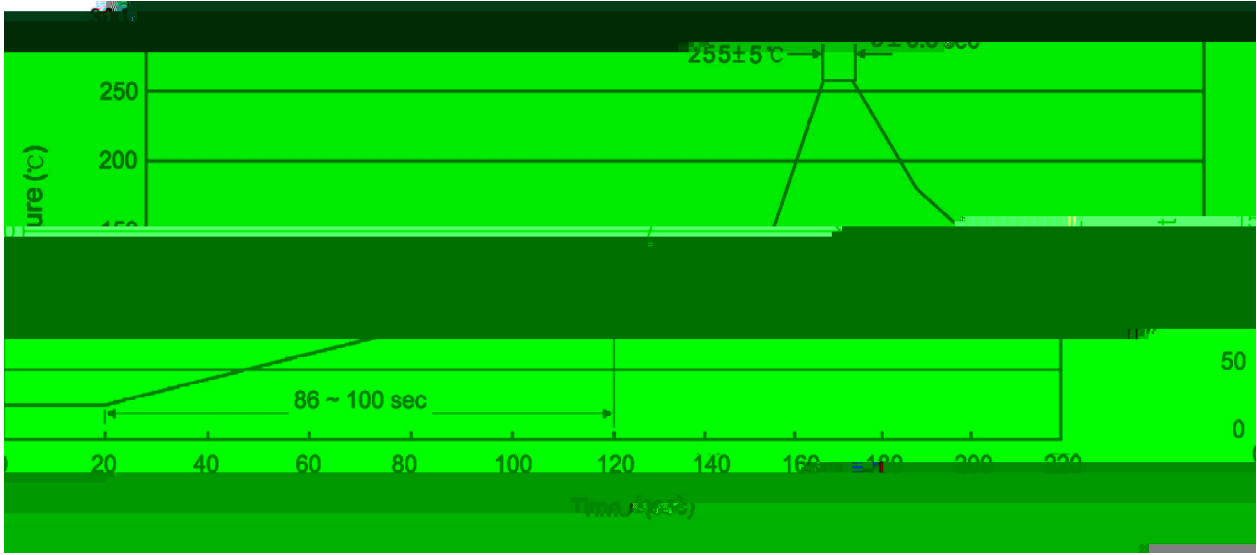
BR: Company Code.

B772S: Product Type.

R:  $h_{FE}$  Classifications Symbol

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

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



- |   |       |     |           |        |   |                                      |
|---|-------|-----|-----------|--------|---|--------------------------------------|
| 1 | 25    | 150 | 60        | 90sec; | Note:                                   | 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 mm <sup>3</sup> )

/ AMMO

Package Type	Units				Dimension		(unit mm <sup>3</sup> )

/ Notices