

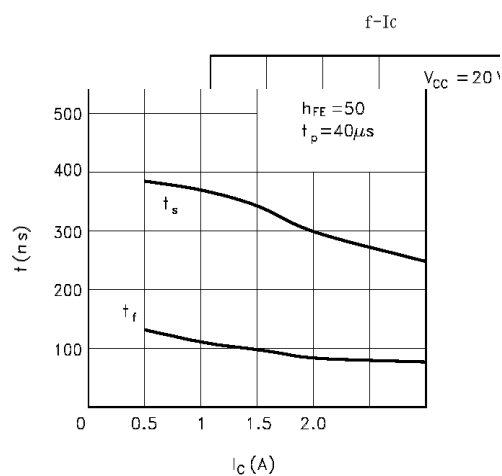
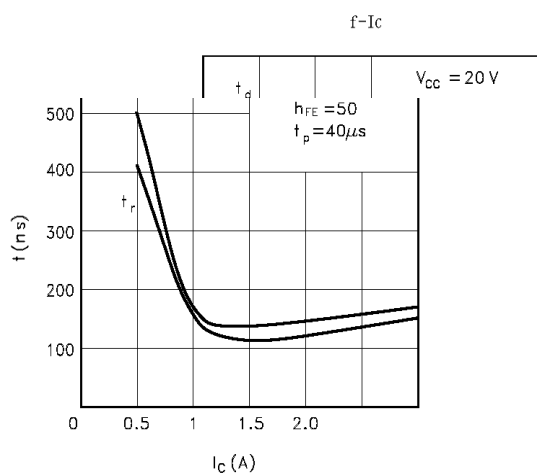
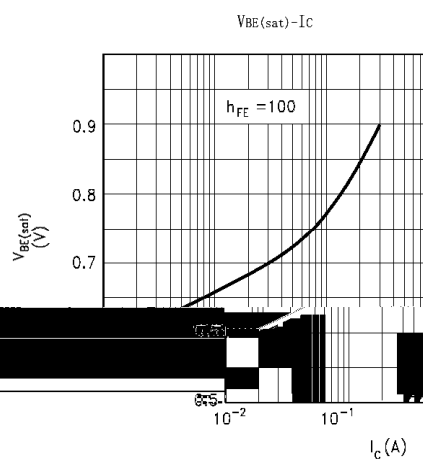
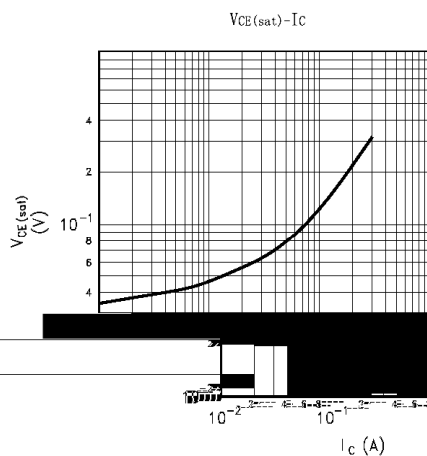
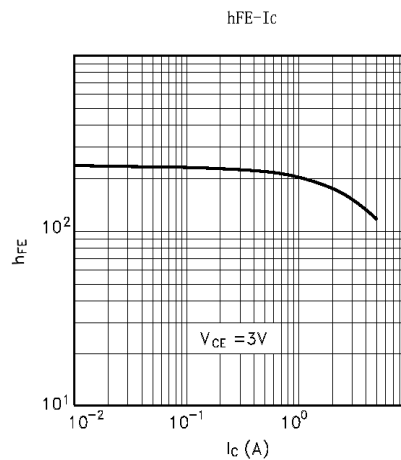
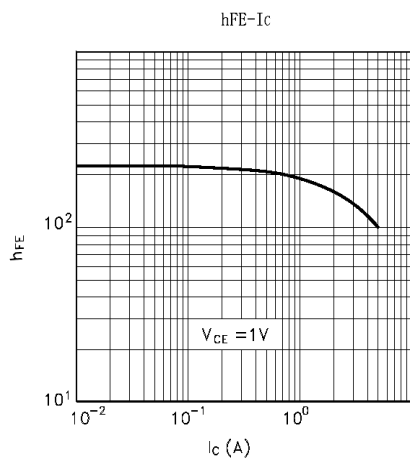
Silicon PNP transistor in a TO-92 Plastic Package.

High  $I_C$  ,low  $V_{CE(sat)}$ .

| Parameter                          | Symbol    | Rating  | Unit |
|------------------------------------|-----------|---------|------|
| Collector to Base Voltage          | $V_{CBO}$ | -60     | V    |
| Collector to Emitter Voltage       | $V_{CEO}$ | -60     | V    |
| Emitter to Base Voltage            | $V_{EBO}$ | -5.0    | V    |
| Collector Current - Continuous     | $I_C$     | -3.0    | A    |
| Peak Collector Current- Continuous | $I_{CM}$  | -6.0    | A    |
| Collector Power Dissipation        | $P_C$     | 0.9     | W    |
| Junction Temperature               | $T_j$     | 150     |      |
| Storage Temperature Range          | $T_{stg}$ | -55 150 |      |

| Parameter                               | Symbol            | Test Conditions                        | Min  | Typ          | Max       | Unit    |
|-----------------------------------------|-------------------|----------------------------------------|------|--------------|-----------|---------|
| Collector to Base Breakdown Voltage     | $V_{CBO}$         | $I_C=-100\mu A$ $I_E=0$                | -60  |              |           | V       |
| Collector to Emitter Breakdown Voltage* | $*V_{CEO}$        | $I_C=-10mA$ $I_B=0$                    | -60  |              |           | V       |
| Emitter to Base Breakdown Voltage       | $V_{EBO}$         | $I_E=-100\mu A$ $I_C=0$                | -5.0 |              |           | V       |
| Collector Cut-Off Current               | $I_{CBO}$         | $V_{CB}=-60V$ $I_E=0$                  |      |              | -0.1      | $\mu A$ |
| Emitter Cut-Off Current                 | $I_{EBO}$         | $V_{EB}=-4.0V$ $I_C=0$                 |      |              | -1.0      | $\mu A$ |
| DC Current Gain                         | $*h_{FE(1)}$      | $V_{CE}=-2.0V$ $I_C=-500mA$            | 100  | 200          | 300       |         |
|                                         | $*h_{FE(2)}$      | $V_{CE}=-2.0V$ $I_C=-10mA$             | 100  | 200          |           |         |
|                                         | $*h_{FE(3)}$      | $V_{CE}=-1.0V$ $I_C=-3.0A$             | 90   | 130          |           |         |
| Collector to Emitter Saturation Voltage | $*V_{CE(sat)(1)}$ | $I_C=-0.5A$ $I_B=-50mA$                |      |              | -0.15     | V       |
|                                         | $*V_{CE(sat)(2)}$ | $I_C=-1.0A$ $I_B=-100mA$               |      |              | -0.3      | V       |
|                                         | $*V_{CE(sat)(3)}$ | $I_C=-2.0A$ $I_B=-200mA$               |      |              | -0.5      | V       |
|                                         | $*V_{CE(sat)(4)}$ | $I_C=-3.0A$ $I_B=-300mA$               |      |              | -0.7      | V       |
| Base to Emitter Saturation Voltage*     | $*V_{BE(sat)}$    | $I_C=-1.0A$ $I_B=-100mA$               |      | -0.8         | -1.0      | V       |
| Base to Emitter Voltage                 | $V_{BE}$          | $V_{CE}=-2.0V$ $I_C=-1.0A$<br>$=-5.0A$ |      | -0.8<br>-0.8 | -1.0<br>V | V       |

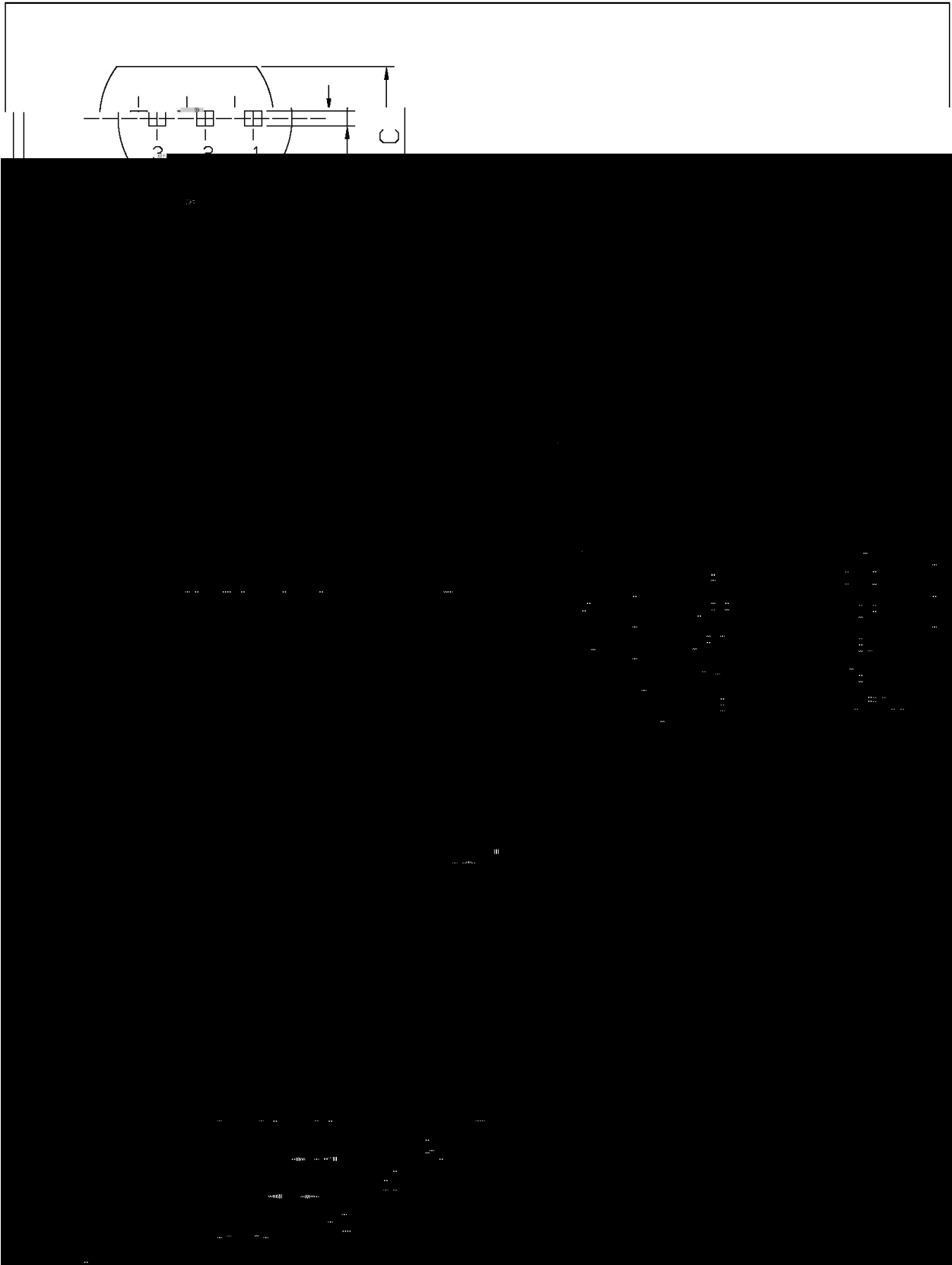
**/ Electrical Characteristic Curve**



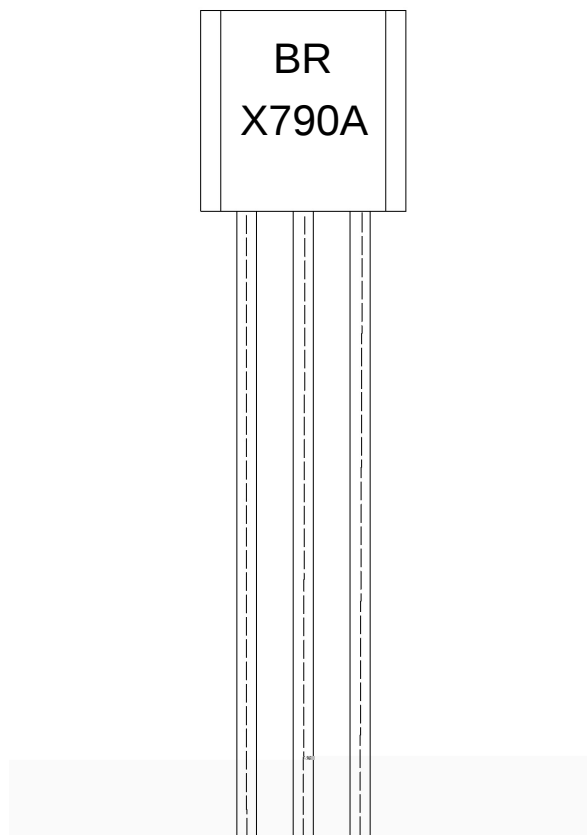
/ Package Dimensions

TO-92

Unit: mm



**/ Marking Instructions**



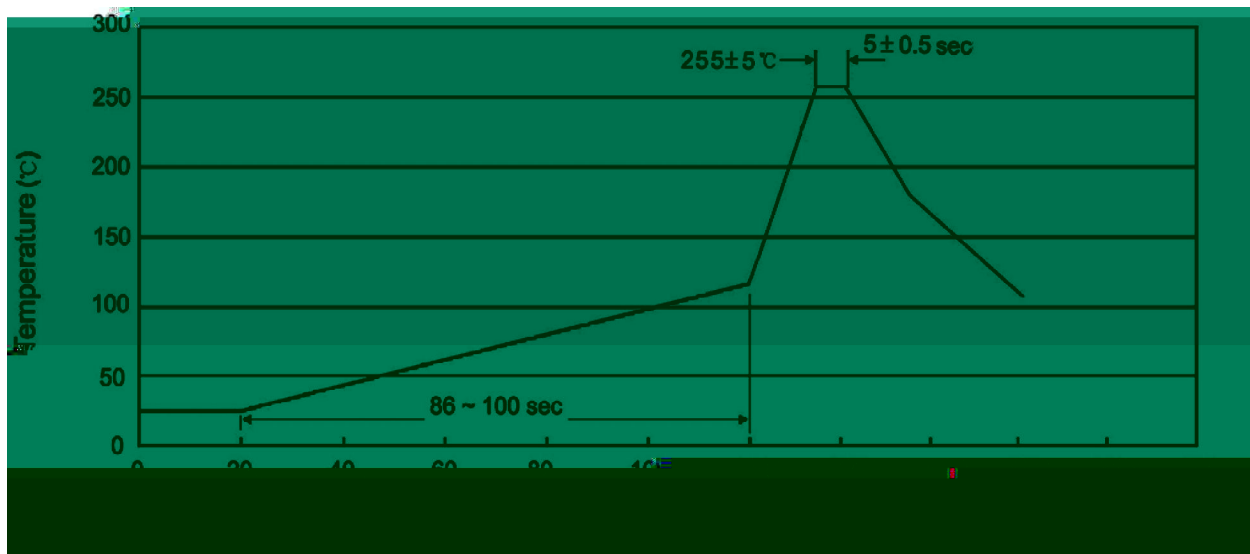
Note:

BR: Company Code.

X790A: Product Type.

\*\*\*: 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<br>封装形式 | Units 包装数量 |     |     |     |     | Dimension 包装尺寸 (unit: mm3) |   |   |
|----------------------|------------|-----|-----|-----|-----|----------------------------|---|---|
|                      | 只 袋        | 袋 盒 | 只 盒 | 盒 箱 | 只 箱 | 袋                          | 盒 | 箱 |
|                      |            |     |     |     |     |                            |   |   |

/ AMMO

| Package Type<br>封装形式 | Units 包装数量 |      |       |     |     | Dimension 包装尺寸 (unit: mm3) |            |
|----------------------|------------|------|-------|-----|-----|----------------------------|------------|
|                      | 只 纸带       | 纸带 盒 | 纸带层 盒 | 盒 箱 | 只 箱 | 盒                          | 箱          |
|                      |            |      |       |     |     |                            | 小箱 ,<br>大箱 |

/ Notices