

**/ Descriptions**

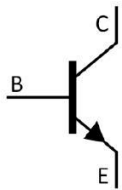
TO-92          NPN          Silicon NPN transistor in a TO-92 Plastic Package.

**/ Features**

Low current, Low voltage.

**/ Applications**

General purpose amplifier.

**/ Equivalent Circuit****/ Pinning**

**1 2 3**  
PIN1   Collector          PIN 2   Base          PIN 3   Emitter

**/  $h_{FE}$  Classifications & Marking**

See Marking Instructions.

# 2N3904

Rev.E Mar.-2016

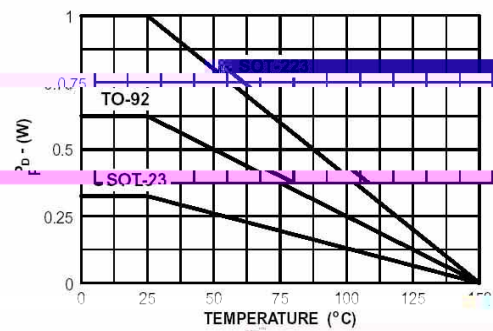
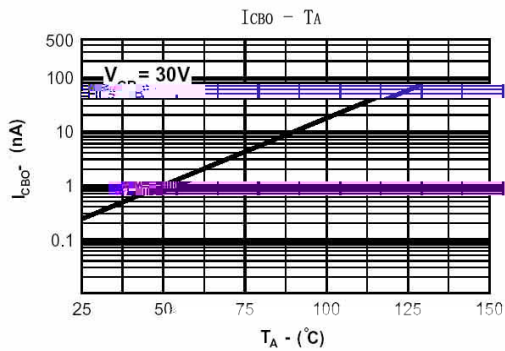
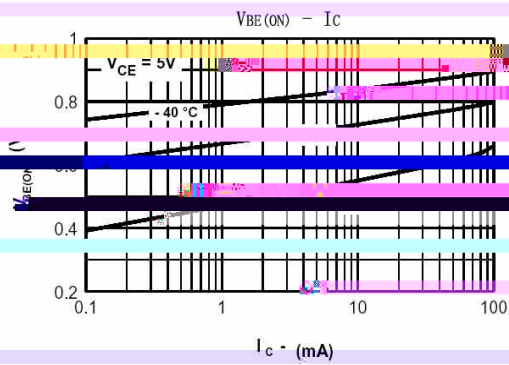
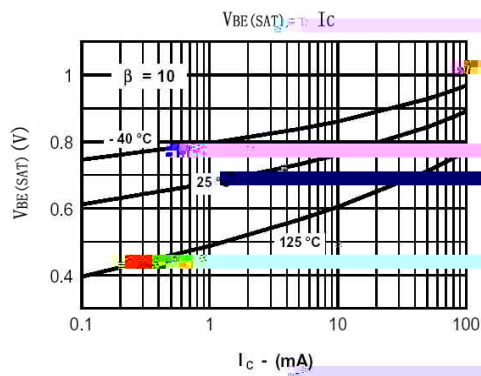
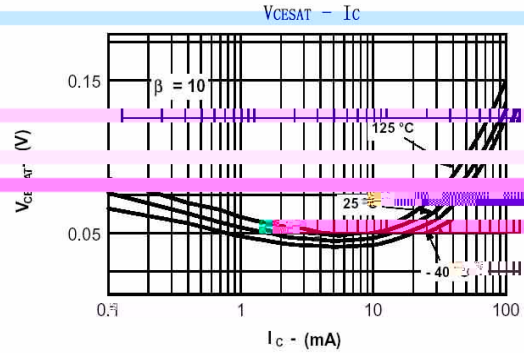
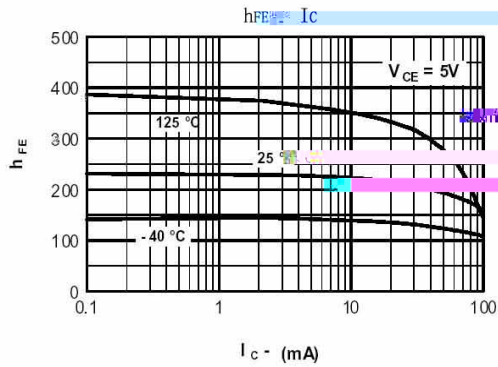


蓝箭电子  
BLUE ROCKET ELECTRONICS

DATA SHEET

| Parameter                    | Symbol    | Rating | Unit |
|------------------------------|-----------|--------|------|
| Collector to Base Voltage    | $V_{CBO}$ | 60     | V    |
| Collector to Emitter Voltage | V         |        |      |

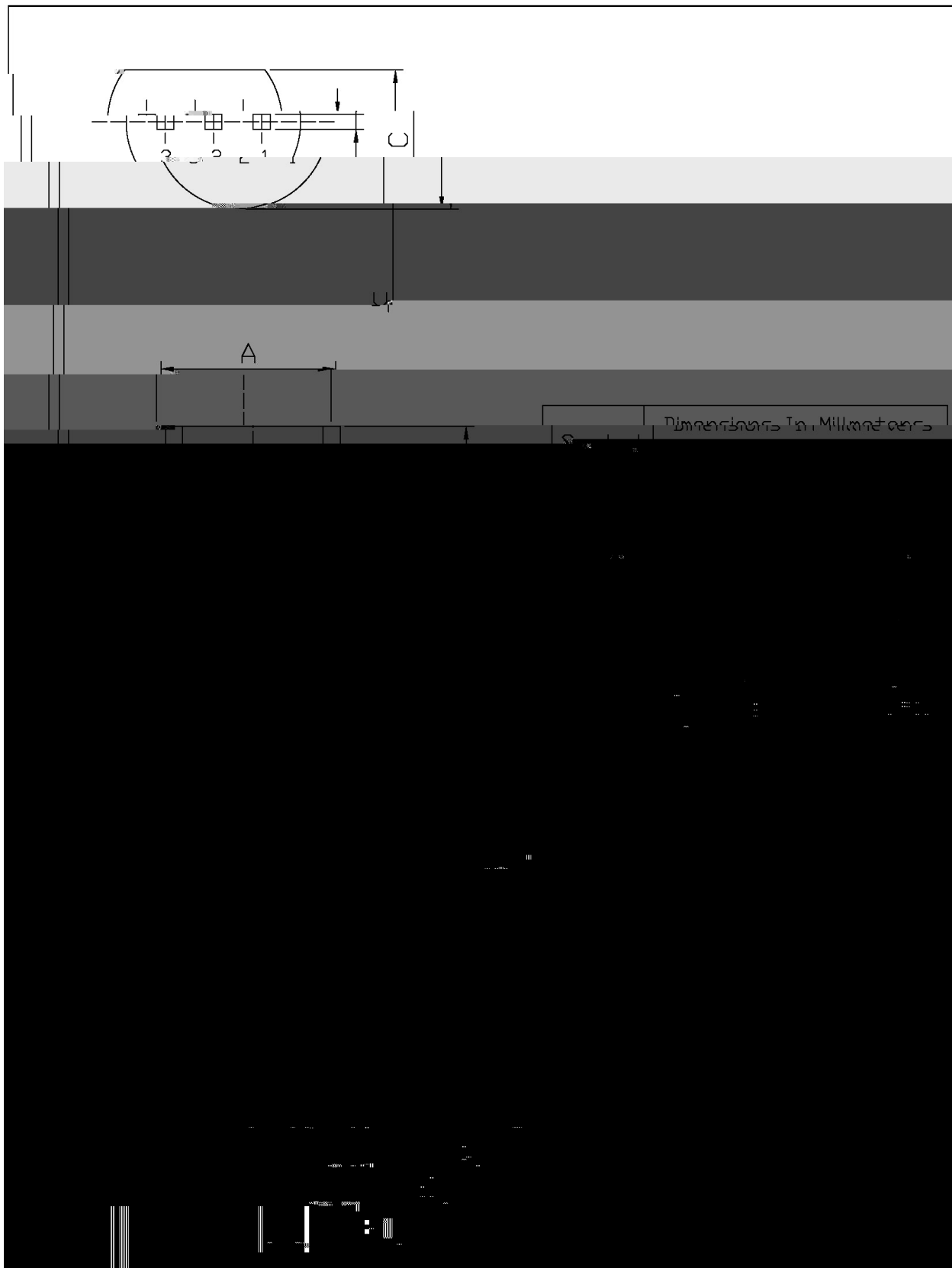
**/ Electrical Characteristic Curve**



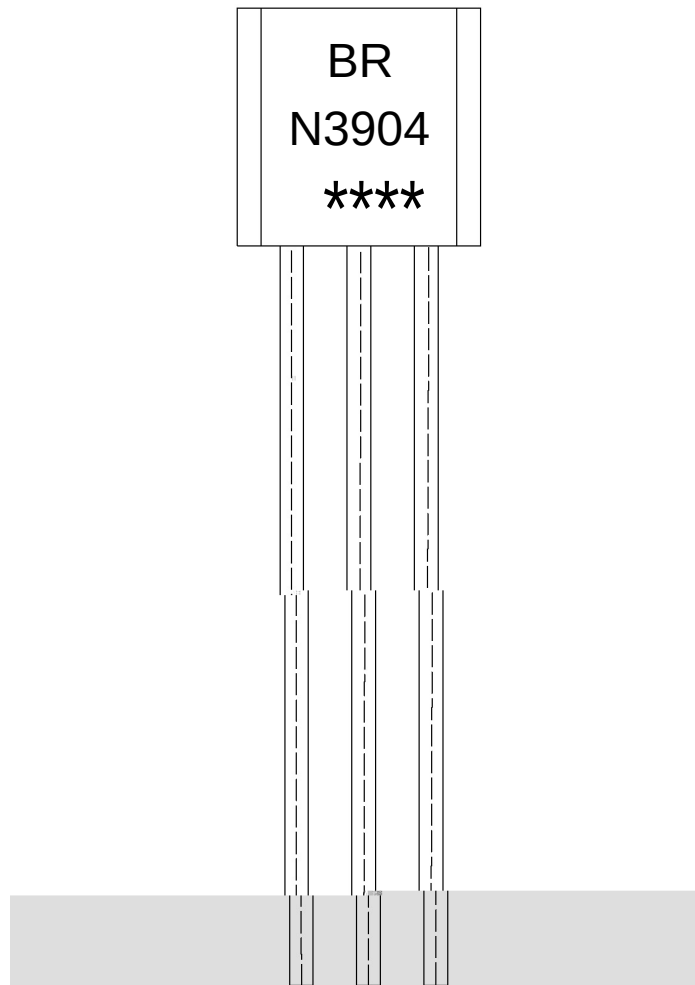
/ PackageDimensions

TO-92

Unit: mm



**/ Marking Instructions**



BR

N3904

\*\*\*\*

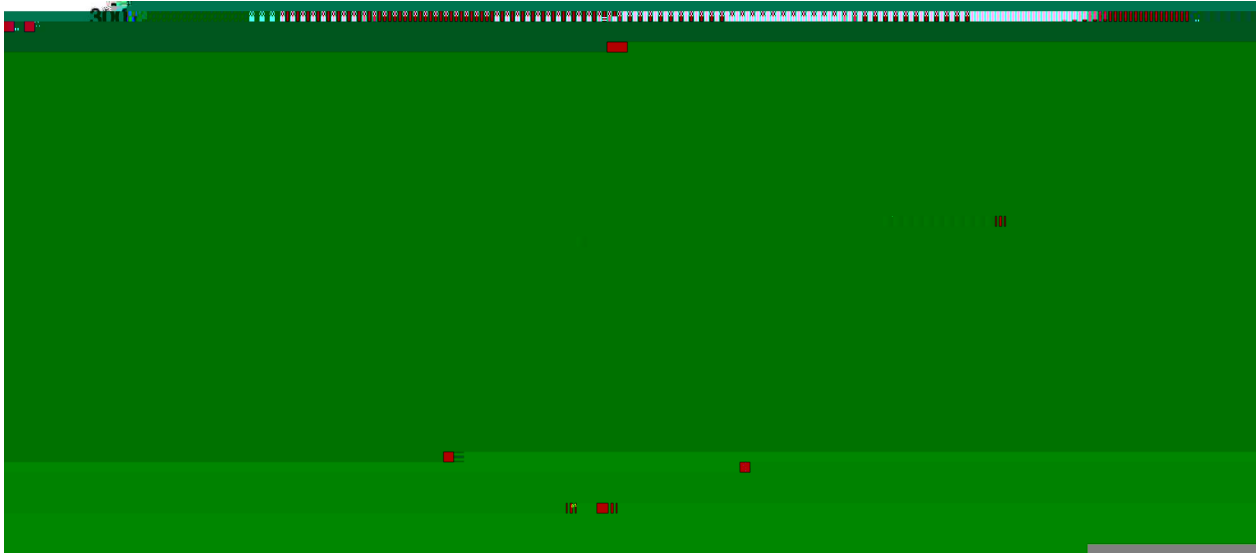
Note:

BR: Company Code.

N3904: 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 | 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   |
| TO-92        | 1,000          | 10                  | 10,000               | 5                          | 50,000               | 135×190              | 237×172×102 | 560×245×195 |
|              | 1,000          | 10                  | 10,000               | 10                         | 100,000              | 135×190              | 237×172×102 | 560×245×375 |

/ AMMO

| Package Type | Units           |                     |                     |                            |                      | Dimension (unit mm3) |                            |
|--------------|-----------------|---------------------|---------------------|----------------------------|----------------------|----------------------|----------------------------|
|              | Units/tape<br>/ | Tape/Inner Box<br>/ | Rows/Inner Box<br>/ | Inner Boxes/Outer Box<br>/ | Units/Outer Box<br>/ | Inner Box            | Outer Box                  |
| TO-92        | 3,000           | 1                   | 120                 | 10                         | 30,000               | 328×230×42           | 480×346×235<br>547×407×268 |

/ Notices