

/ Descriptions

Silicon PNP transistor in a TO-92 Plastic Package.

/ Features

Switching Transistors.

/ Ap 012 133.-5.4(2.5 .0es)-5.77 052 05 rg57.54 614.12 480250 T62.0 614.12 46950 T68/TT8 1

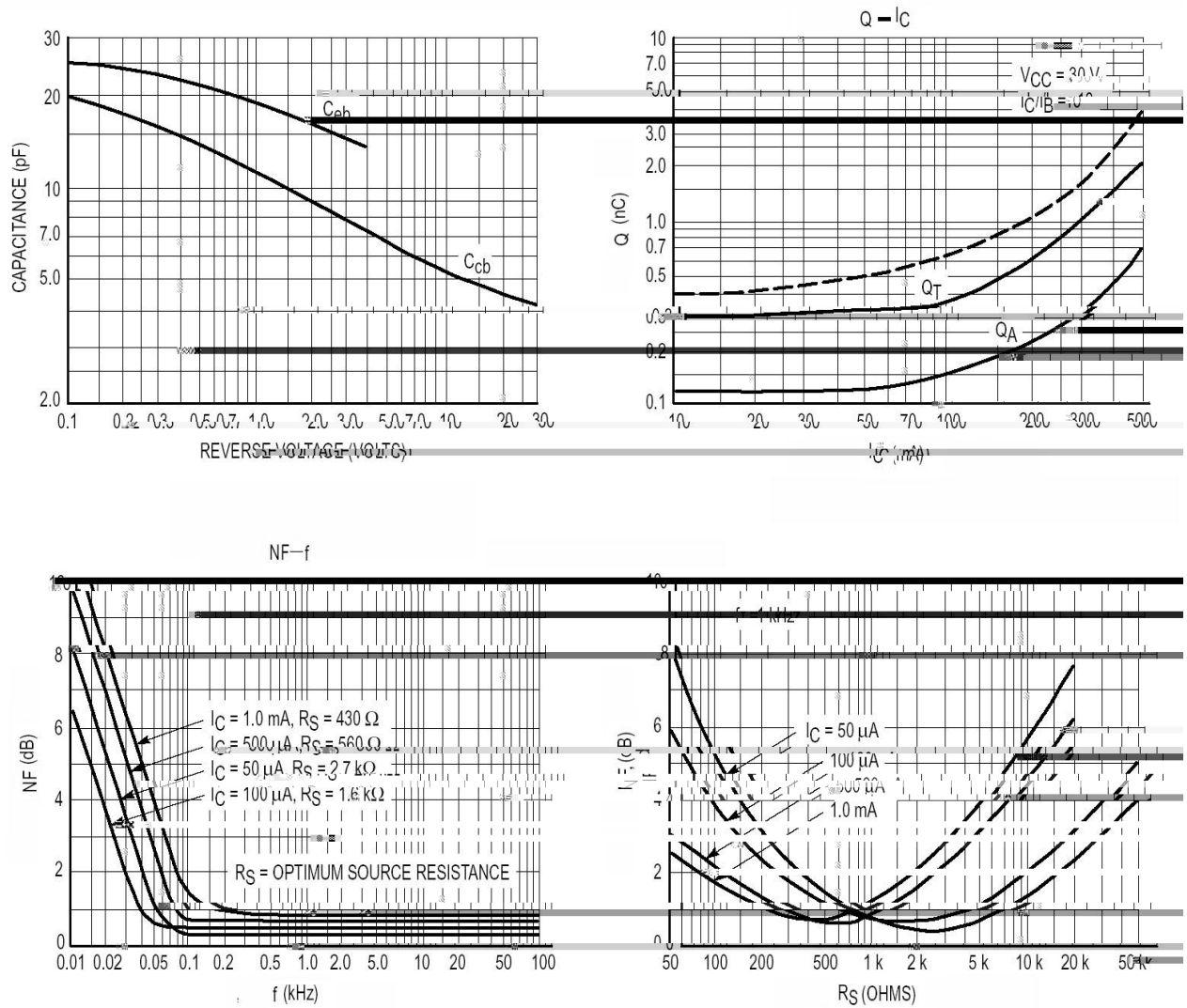
General purpose amplifier applications.

| Parameter | Symbol |
|-----------|--------|
|-----------|--------|

**/ Electrical Characteristics(Ta=25 )**

| Parameter            | Symbol    | Test Conditions                                            | Min | Typ | Max | Unit |
|----------------------|-----------|------------------------------------------------------------|-----|-----|-----|------|
| Transition Frequency | $f_T$     | $V_{CE}=-3V$ $I_C=-50mA$<br>$f=100MHz$                     | 150 |     |     | MHZ  |
| Output Capacitance   | $C_{obo}$ | $V_{CB}=-10V$ $I_E=0$<br>$f=1.0MHz$                        |     |     | 10  | pF   |
| Input Capacitance    | $C_{ibo}$ | $V_{EB}=-0.5V$ $I_C=0$<br>$f=1.0MHz$                       |     |     | 25  | pF   |
| Delay Time           | $t_d$     | $V_{CC}=-10V$ $I_C=-300mA$<br>$I_{B1}=-30mA$               |     |     | 20  | ns   |
| Rise Time            | $t_r$     |                                                            |     |     | 70  | ns   |
| Storage Time         | $t_s$     | $V_{CC}=-10V$ $I_{B1}=-30mA$<br>$I_C=-300mA$ $I_{B2}=30mA$ |     |     | 140 | ns   |
| Fall Time            | $t_f$     |                                                            |     |     | 70  | ns   |
| Turn-On Time         | $t_{on}$  | $I_C=-300mA$ $I_{B1}=-30mA$                                |     |     | 75  | ns   |
| Turn-Off Time        | $t_{off}$ | $I_C=-300mA$ $I_{B1}=-30mA$<br>$I_{B2}=30mA$               |     |     | 170 | ns   |

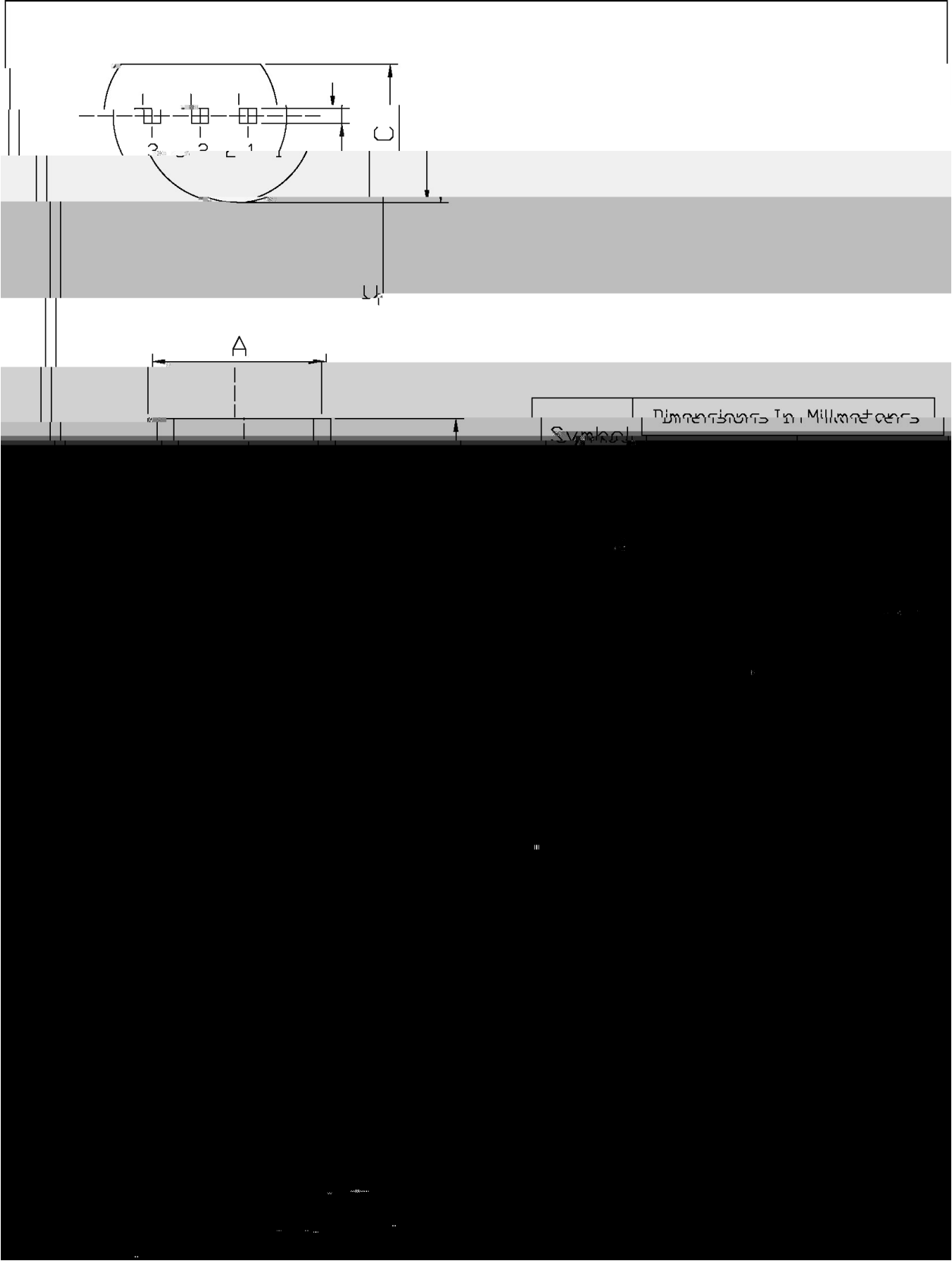
**/ Electrical Characteristic Curve**



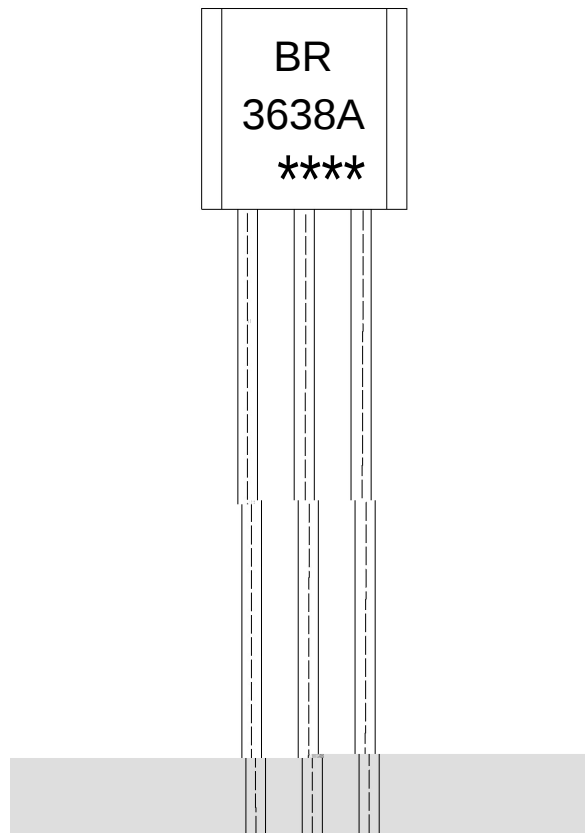
/ Package Dimensions

TO-92

Unit: mm



**/ Marking Instructions**



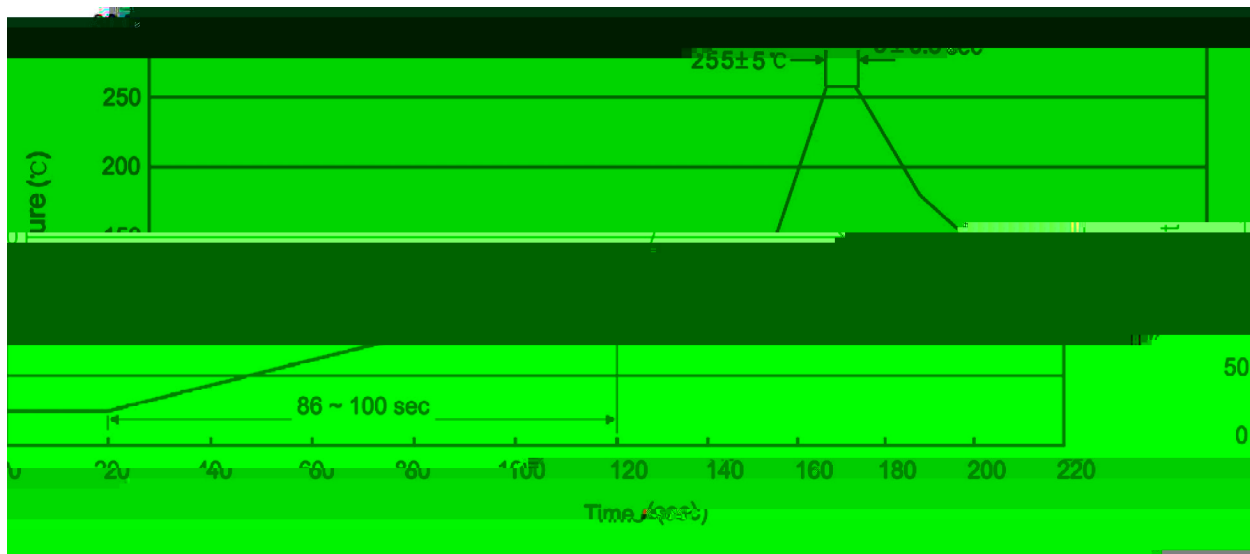
Note:

BR: Company Code.

3638A: 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) |             |             |
|----------------------|------------------|-----------------------|------------------------|------------------------------|------------------------|----------------------------|-------------|-------------|
|                      | Units/Bag<br>只/袋 | Bags/Inner Box<br>袋/盒 | Units/Inner Box<br>只/盒 | Inner Boxes/Outer Box<br>盒/箱 | Units/Outer Box<br>只/箱 | Bag 袋                      | Inner Box 盒 | Outer Box 箱 |
| 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<br>封装形式 | Units 包装数量         |                        |                         |                              |                        | Dimension 包装尺寸 (unit: mm3) |                                   |
|----------------------|--------------------|------------------------|-------------------------|------------------------------|------------------------|----------------------------|-----------------------------------|
|                      | Units/tape<br>只/纸带 | Tape/Inner Box<br>纸带/盒 | Rows/Inner Box<br>纸带层/盒 | Inner Boxes/Outer Box<br>盒/箱 | Units/Outer Box<br>只/箱 | Inner Box 盒                | Outer Box 箱                       |
| TO-92                | 3,000              | 1                      | 120                     | 10                           | 30,000                 | 328×230×42                 | 小箱 480×346×235,<br>大箱 547×407×268 |

/ Notices