

## / Descriptions

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

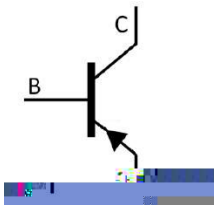
## / Features

KSC815  
Complement to KSC815.

## / Applications

Low frequency power amplifier applications.

## / Equivalent Circuit



## / Pinning



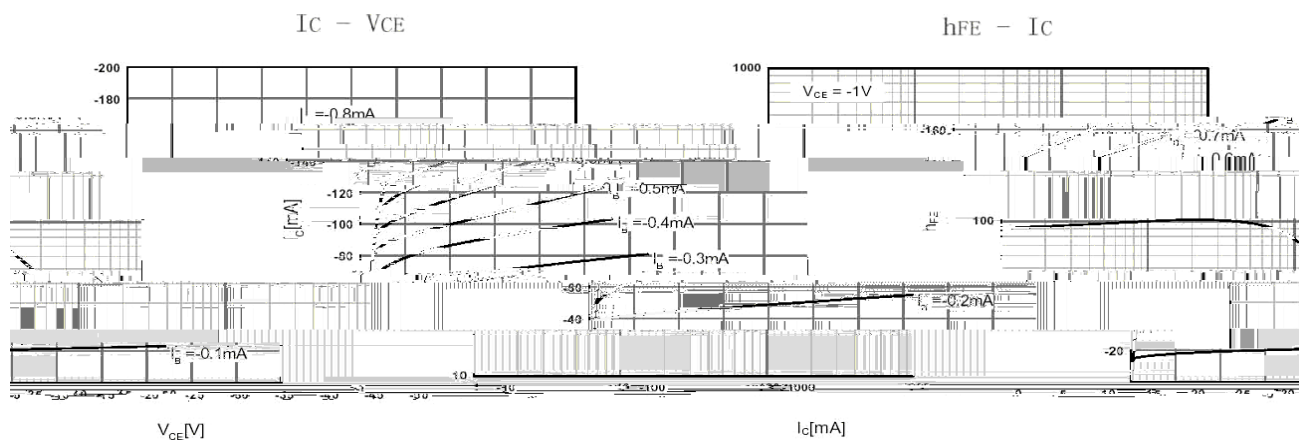
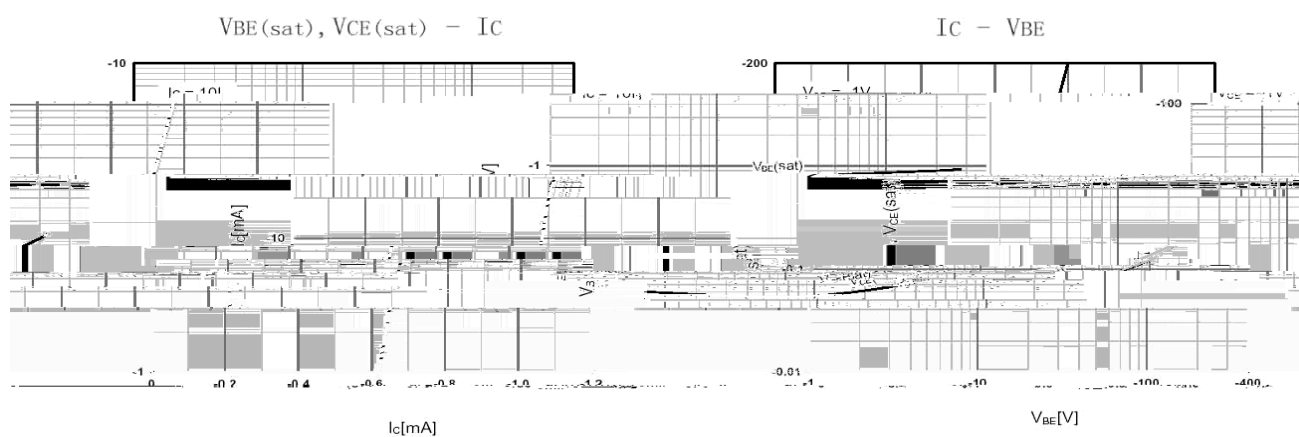
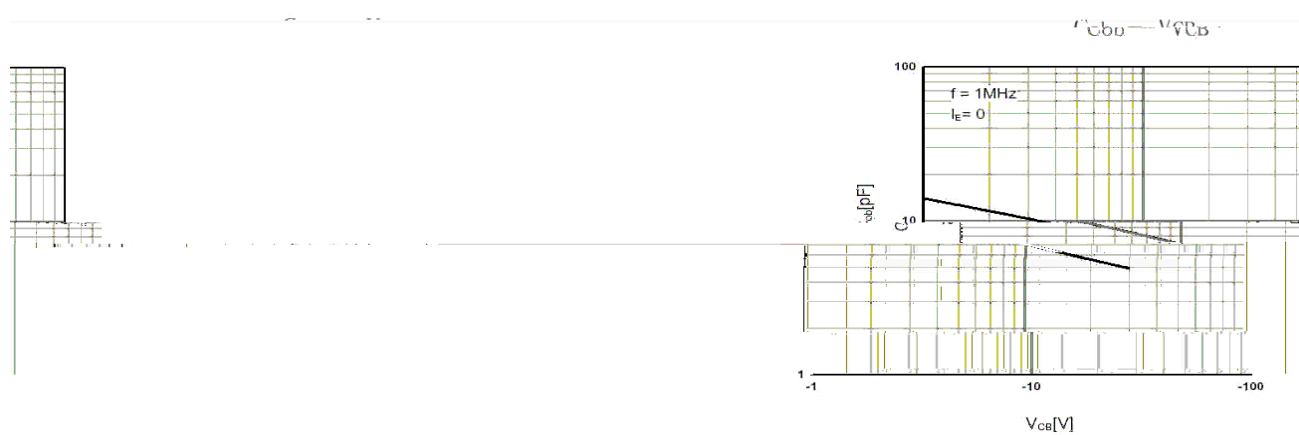
PIN1   Collector          PIN 2   Base          PIN 3   Emitter

## / hFE Classifications & Marking

| h <sub>FE</sub> Classifications<br>Symbol | R     | O      | Y       |
|-------------------------------------------|-------|--------|---------|
| h <sub>FE</sub> Range                     | 40~80 | 70~140 | 120~240 |

| Parameter                      | Symbol    | Rating | Unit |
|--------------------------------|-----------|--------|------|
| Collector to Base Voltage      | $V_{CBO}$ | -60    | V    |
| Collector to Emitter Voltage   | $V_{CEO}$ | -45    | V    |
| Emitter to Base Voltage        | $V_{EBO}$ | -5.0   | V    |
| Collector Current - Continuous | $I_C$     | -200   | mA   |
| Collector Power Dissipation    | $P_C$     | 400    | mW   |
| Junction Temperature           | $T_j$     | 150    |      |

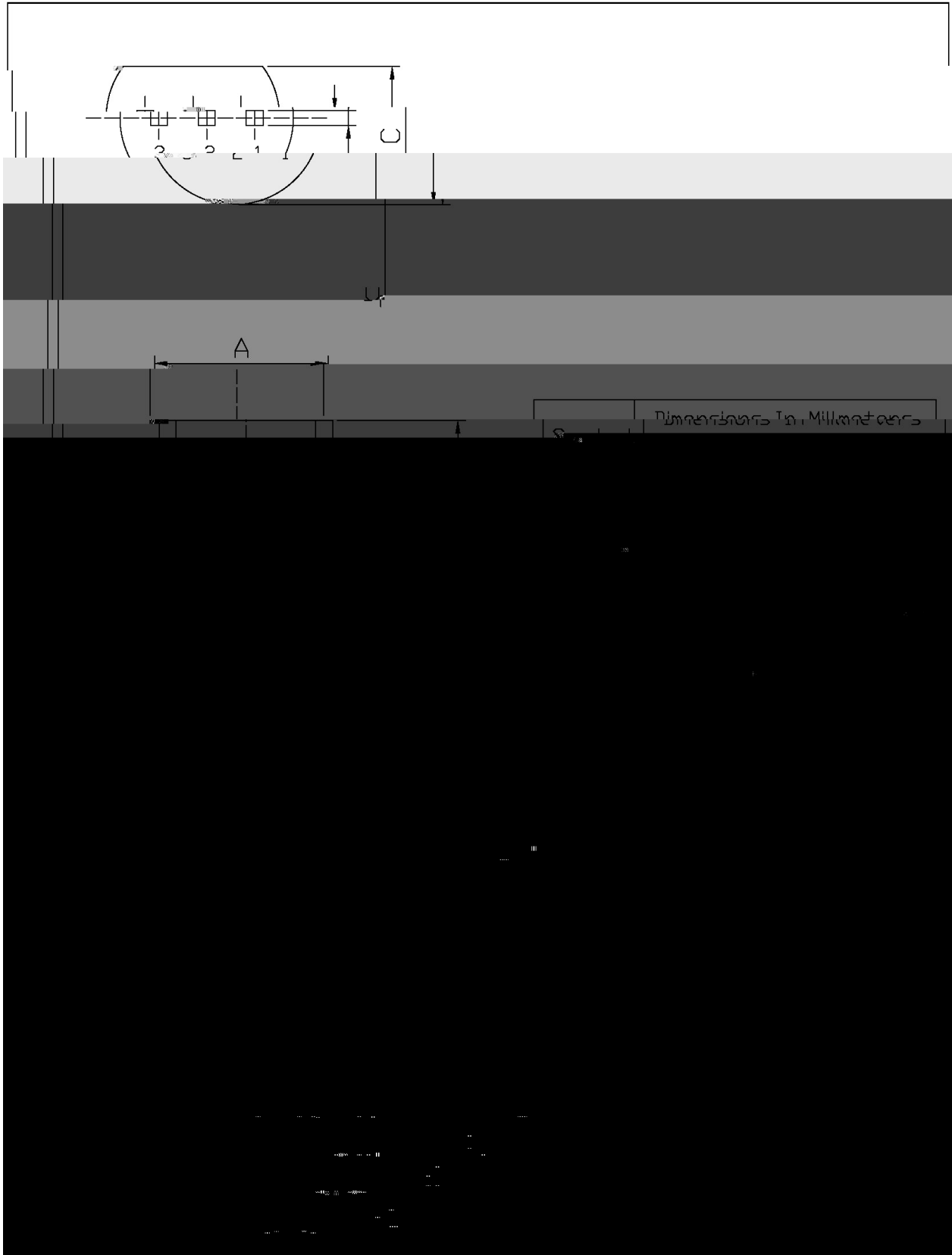
/ Electrical Characteristic Curve



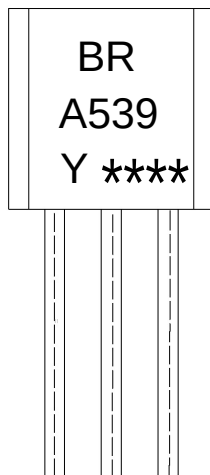
/ Package Dimensions

T0-92

Unit: mm



/ Marking Instructions



BR:

A539

Y: h

\*\*\*\*

Note:

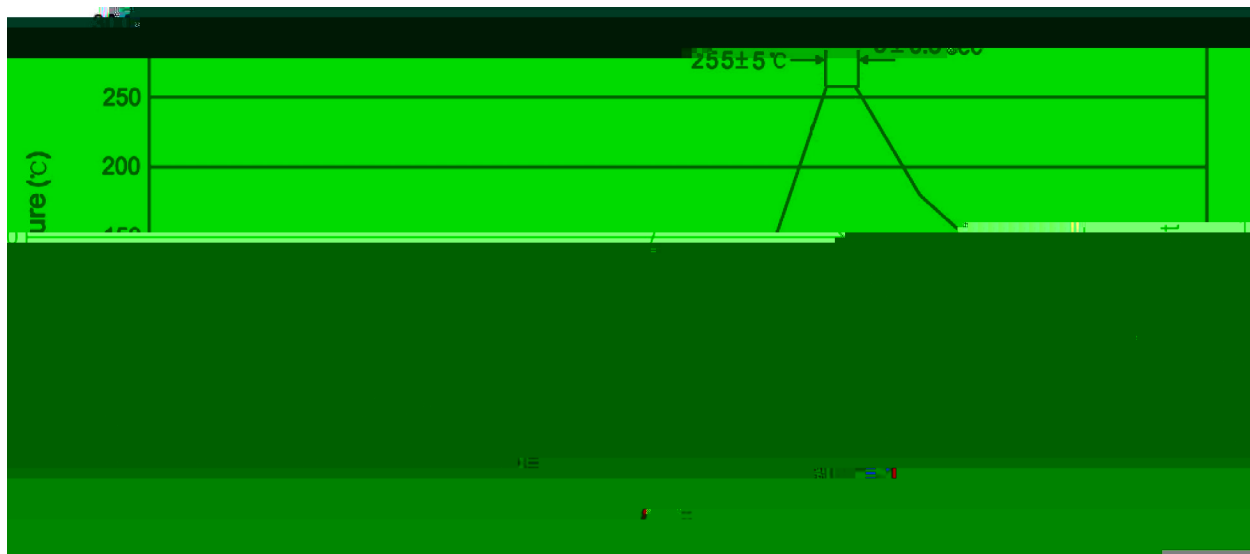
BR: Company Code.

A539: Product Type.

Y:  $h_{FE}$  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<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