

# 2SC1573(A)

Rev.E Mar.-2016

## / Descriptions

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

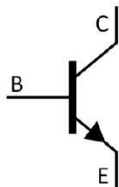
## / Features

$f_T$  , 2SA879(A)  
High  $V_{CE0}$ , high  $f_T$ ; Complementary pair with 2SA879(A).

## / Applications

General amplifier and video frequency output in small screen TV.

## / Equivalent Circuit



## / Pinning



PIN1   Base      PIN 2   Collector      PIN 3   Emitter

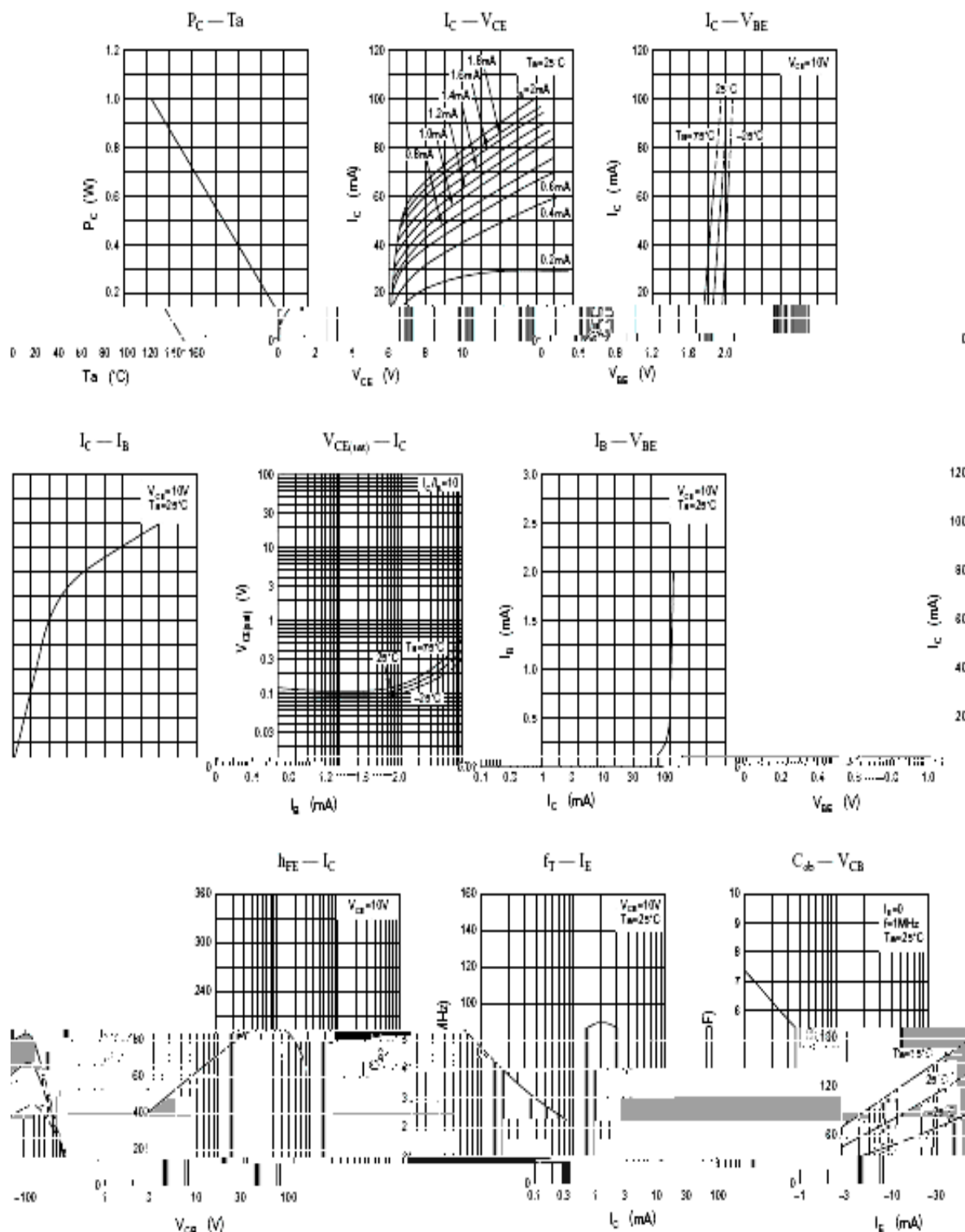
## / $h_{FE}$ Classifications & Marking

| $h_{FE}$ Classifications<br>Symbol | P      | Q      | R       |
|------------------------------------|--------|--------|---------|
| $h_{FE}$ Range                     | 30~100 | 60~150 | 100~220 |

| Parameter                             | Symbol    |          | Rating  | Unit |
|---------------------------------------|-----------|----------|---------|------|
| Collector to Base Voltage             | $V_{CBO}$ | 2SC1573  | 250     | V    |
|                                       |           | 2SC1573A | 300     |      |
| Collector to Emitter Voltage          | $V_{CEO}$ | 2SC1573  | 250     | V    |
|                                       |           | 2SC1573A | 300     |      |
| Emitter to Base Voltage               | $V_{EBO}$ |          | 7.0     | V    |
| Collector Current - Continuous        | $I_C$     |          | 70      | mA   |
| Collector Current – Continuous(Pulse) | $I_{CP}$  |          | 100     | mA   |
| 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 to Emitter Breakdown Voltage | $V_{CEO}$ | 2SC1573  | $I_C=100\mu A \quad I_B=0$ | 250 |     |     | V       |
|                                        |           | 2SC1573A |                            | 300 |     |     |         |
| Emitter to Base Breakdown Voltage      | $V_{EBO}$ |          | $I_E=1.0\mu A \quad I_C=0$ | 7.0 |     |     | V       |
| Collector Cut-Off Current              | $I_{CBO}$ |          | $V_{CB}=120V \quad I_E=0$  |     |     | 2.0 | $\mu A$ |
| DC Current Gain                        | $h_{FE}$  |          | $V_{CE}=10V \quad I_C$     |     |     |     |         |

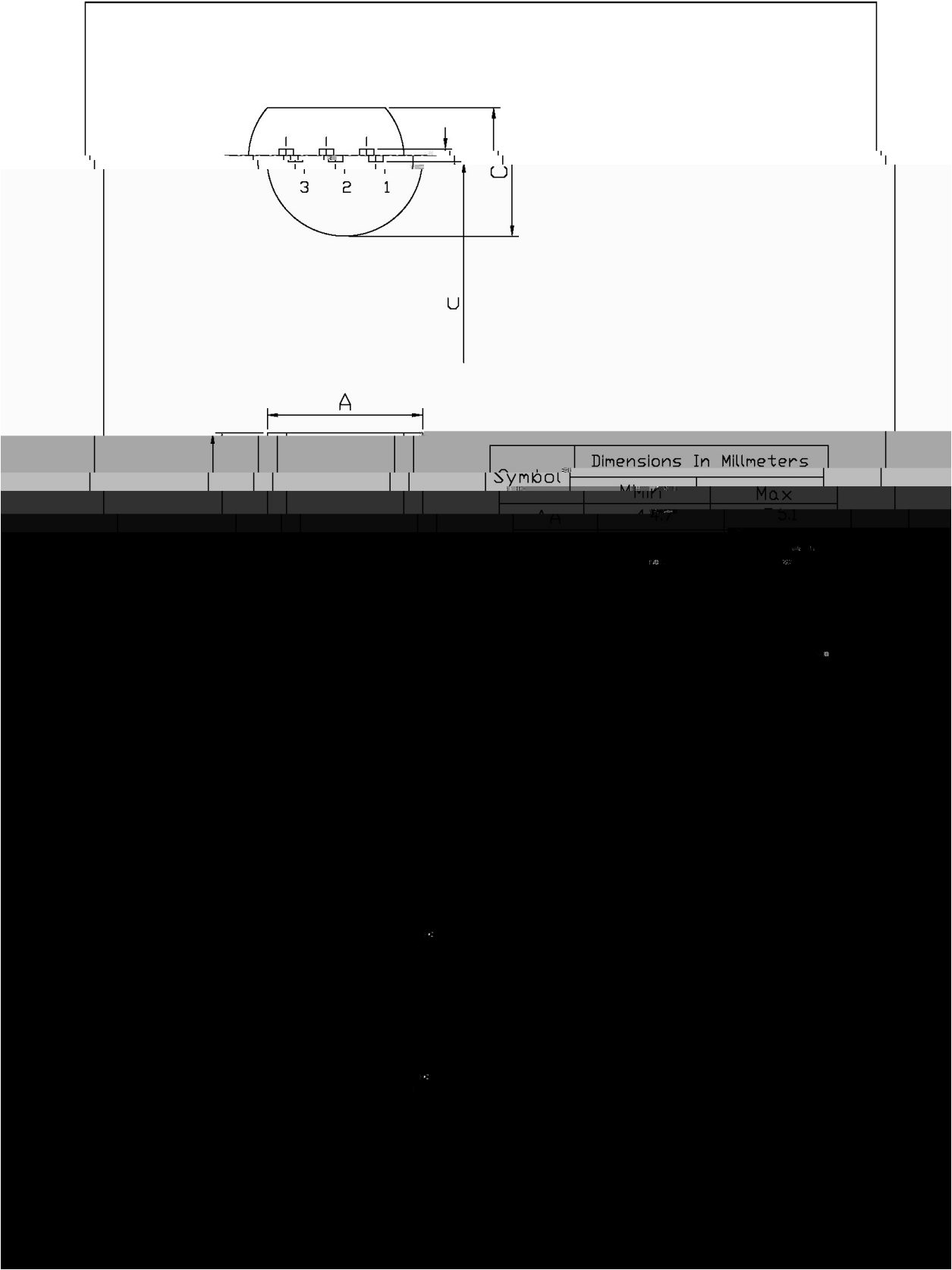
/ Electrical Characteristic Curve



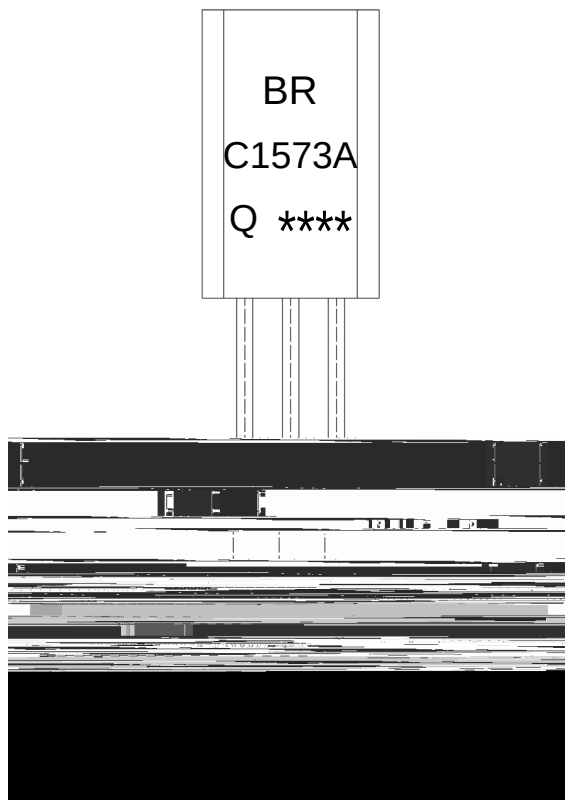
/ Package Dimensions

T0-92LM

Unit: mm



/ Marking Instructions



BR:

C1573A

Q:  $h_{FE}$

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Note:

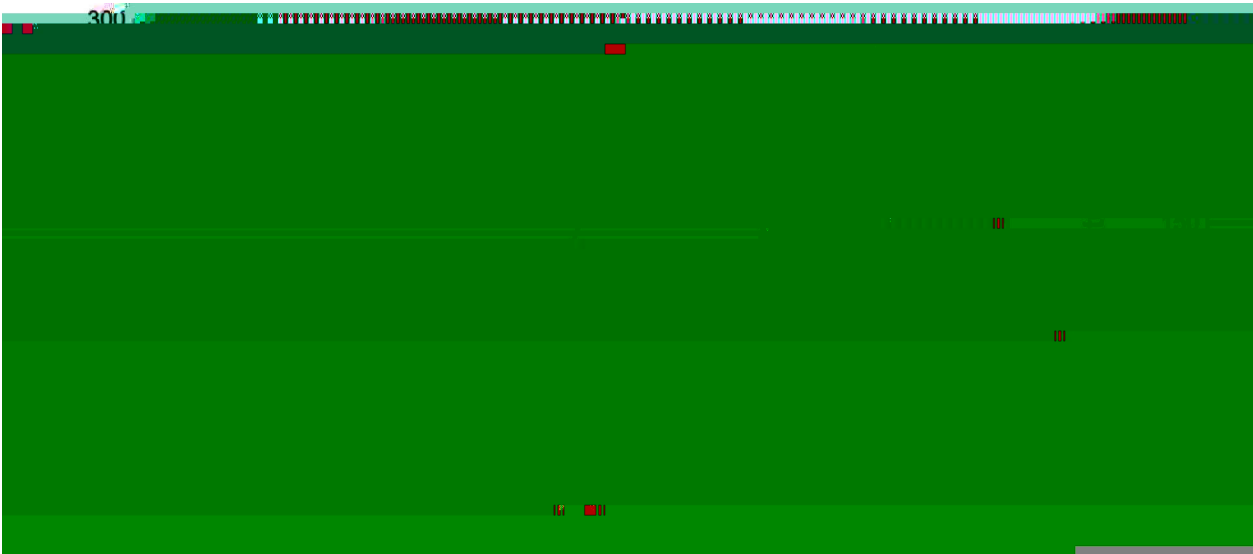
BR: Company Code.

C1573A: Product Type.

Q:  $h_{FE}$  Classifications Symbol

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

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



Note:

- 1

25   150

60   90sec;
- 2

255±5

5±0.5sec;
- 3

2   10

/sec.
- 1.Preheating:25~150

,

Time:60~90sec.
- 2.Peak Temp.:255±5

,

Duration:5±0.5sec.
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 | Bags/Inner Box | Units/Inner Box | Inner Boxes/Outer Box | Units/Outer Box | Bag       | Inner Box |              |