

# KSC2328A

Rev.E Mar.-2016

## / Descriptions

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

## / Features

KSA 928A  
complementary pair with KSA928A.

## / Applications

Audio frequency amplifier applications.

## / Equivalent Circuit



## / Pinning



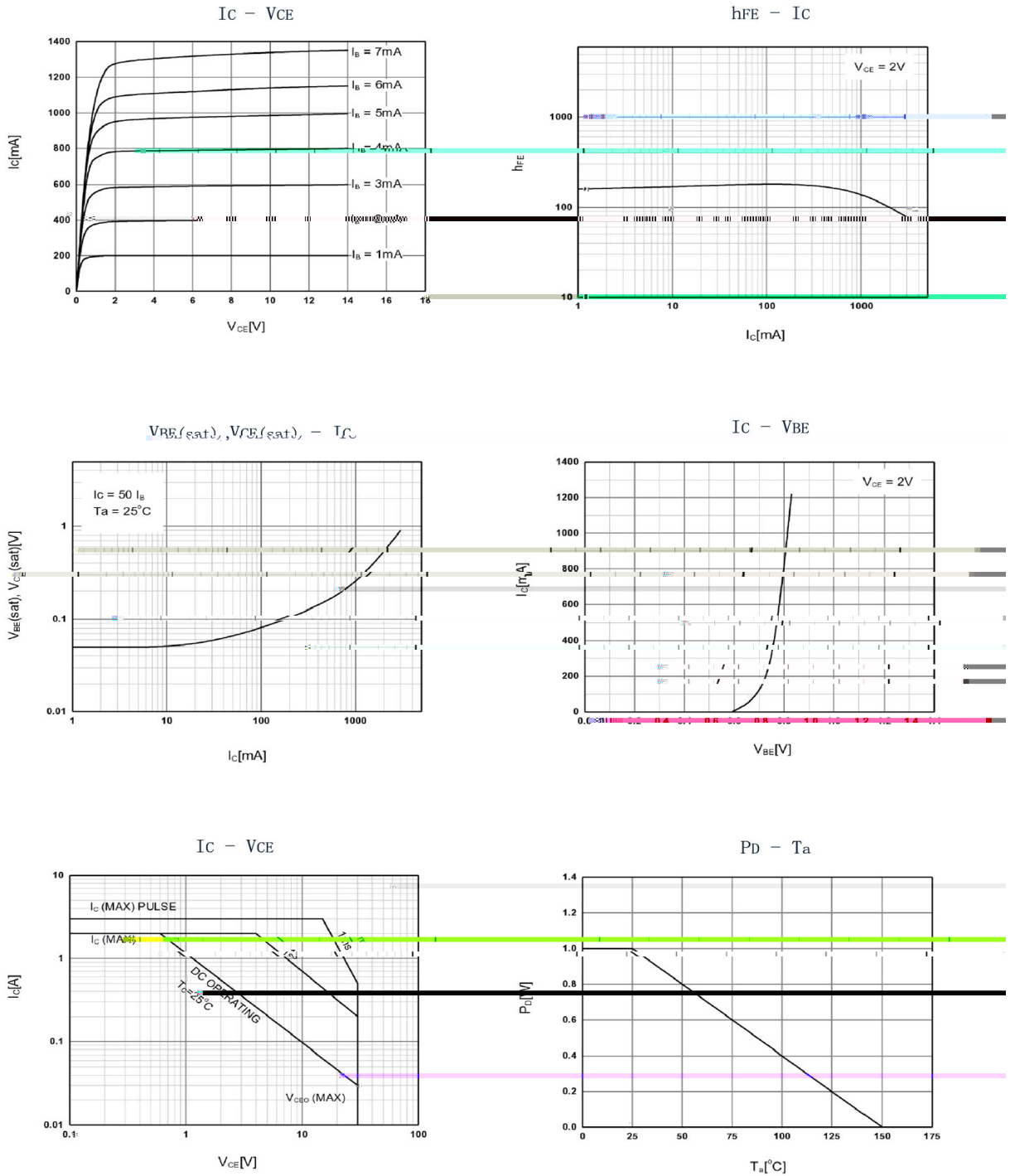
PIN1 Base          PIN 2 Collector          PIN 3 Emitter

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

|                                    |   |   |
|------------------------------------|---|---|
| $h_{FE}$ Classifications<br>Symbol | O | Y |
| $h_{FE}$ Range                     |   |   |



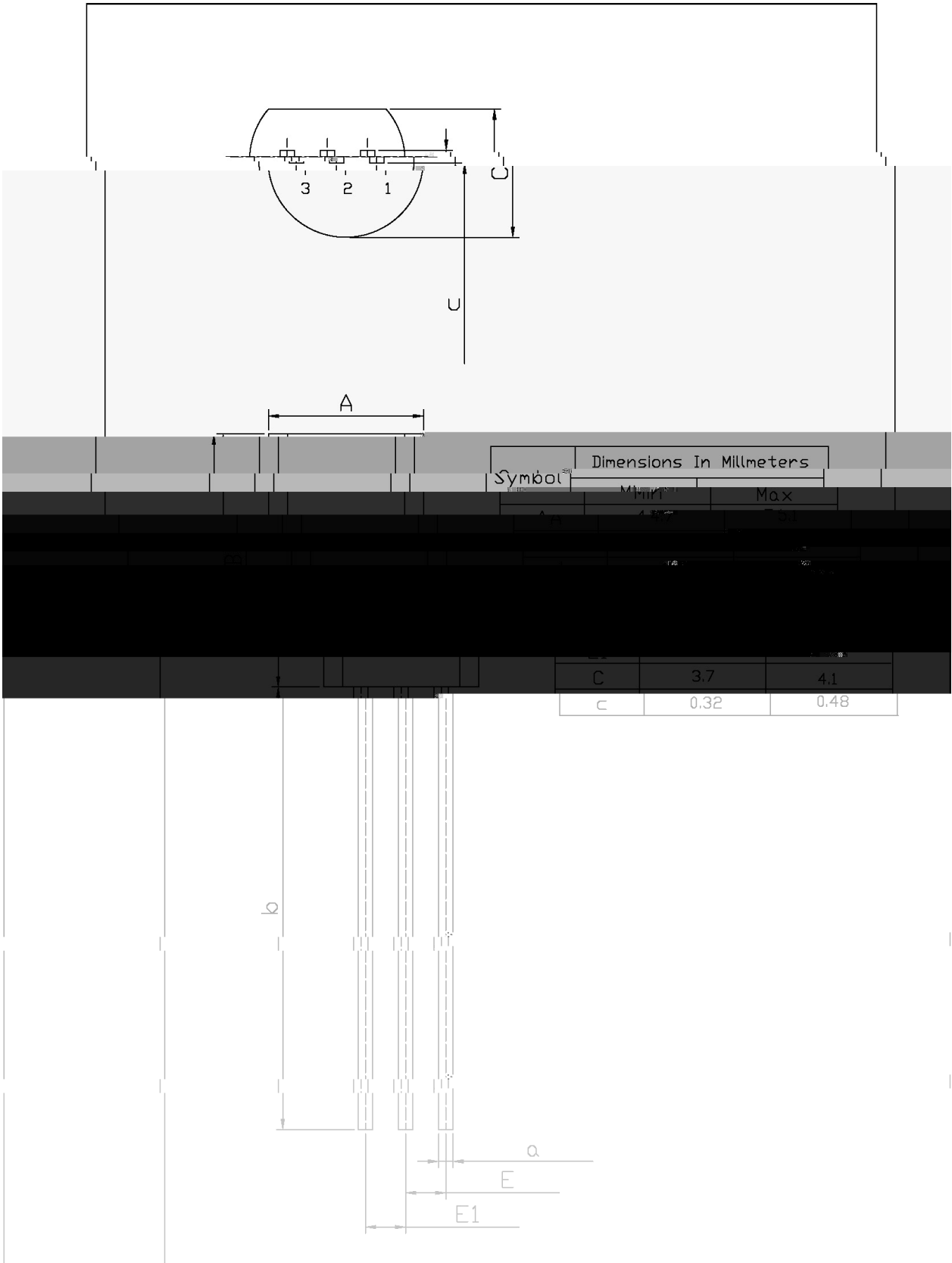
**/ Electrical Characteristic Curve**



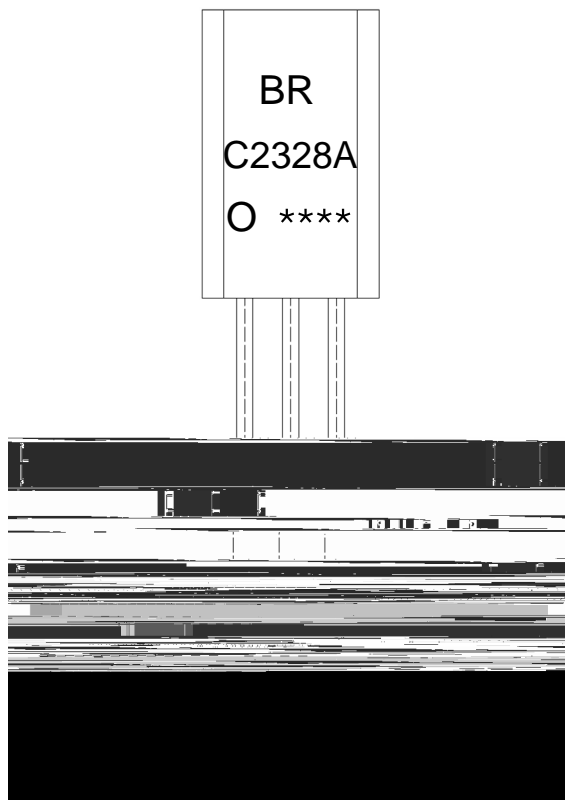
**/ Package Dimensions**

TO-92LM

Unit: mm



/ Marking Instructions



BR:

C2328A

O:  $h_{FE}$

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Note:

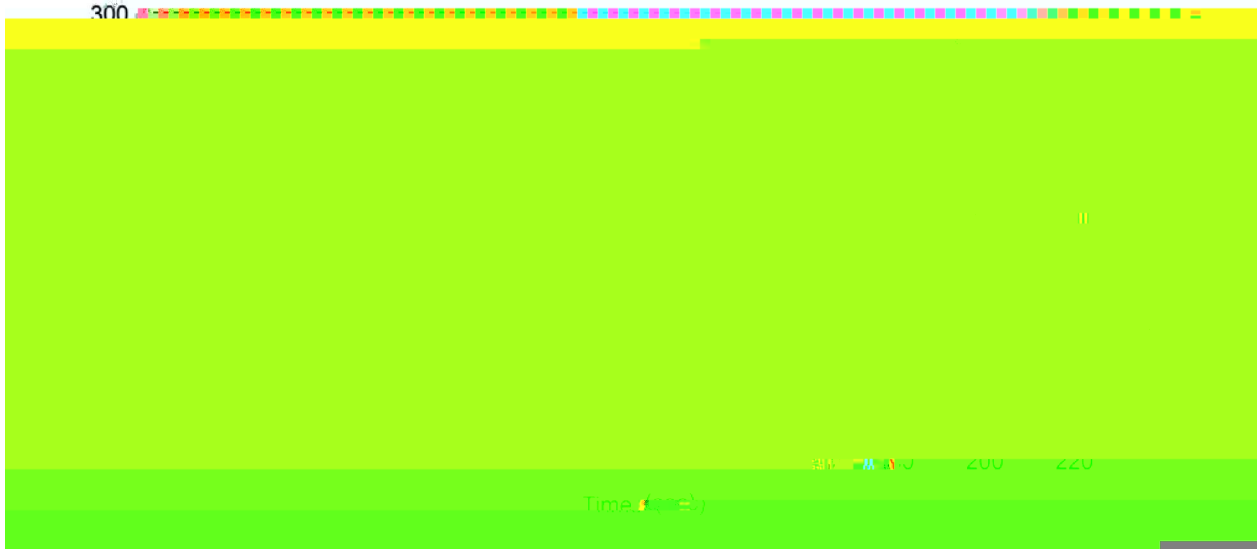
BR: Company Code.

C2328A: Product Type.

O:  $h_{FE}$  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 | 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-92LM      | 1,000          | 8                   | 8,000                | 5                          | 40,000               | 135×190              | 237×172×102 | 560×245×195 |

**/ 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-92LM      | 2,500           | 1                   | 100                 | 10                         | 25,000               | 328×230×42           | 480×346×235<br>547×407×268 |

**/ Notices**