

# KSD1616(A)

Rev.E Mar.-2016

## / Descriptions

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

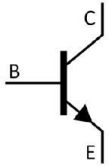
## / Features

KSB1116(A)  
Complementary pair with KSB1116(A)

## / Applications

Audio frequency power amplifier, medium speed switching.

## / Equivalent Circuit



## / Pinning



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

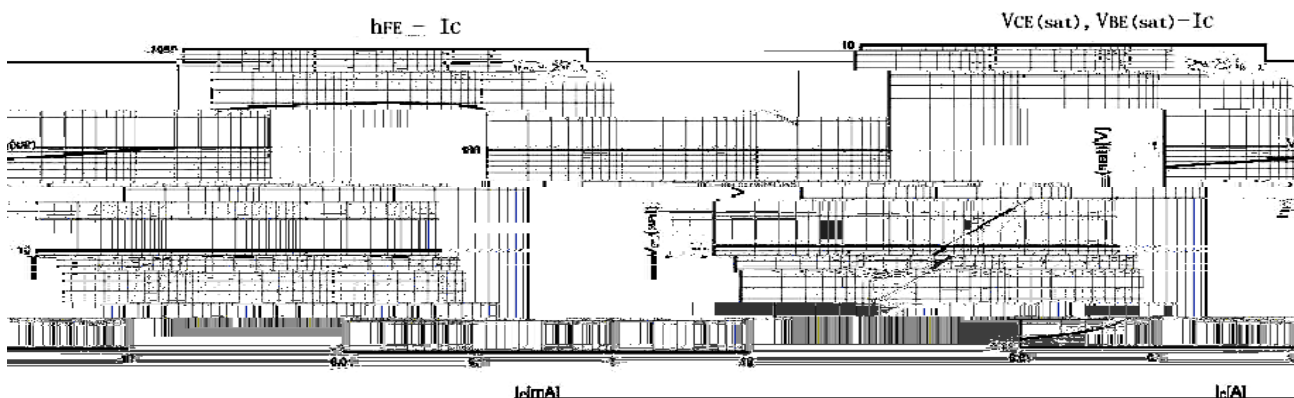
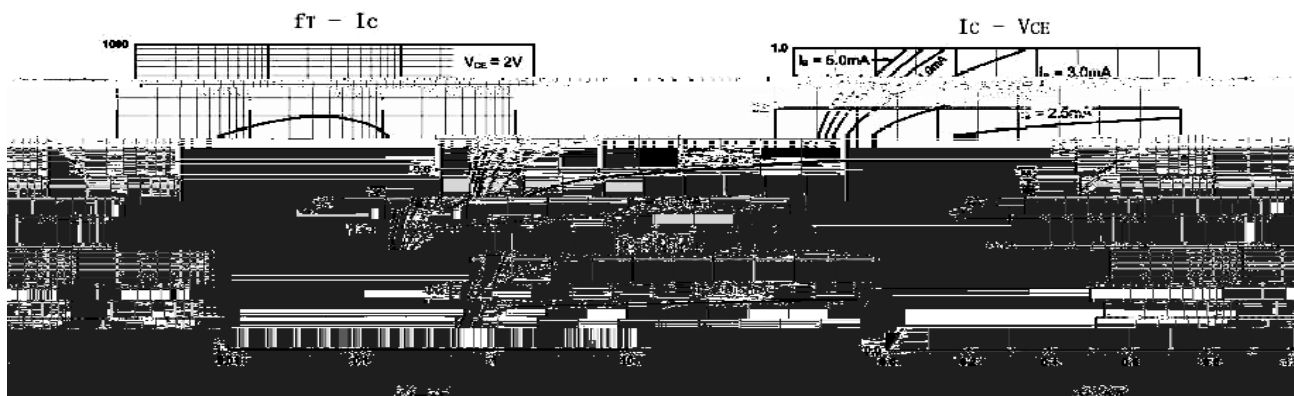
## / hFE Classifications & Marking

h <sub>FE</sub> Classifications Symbol	Y	G	L
h <sub>FE</sub> Range	135~270	200~400	300~600

Parameter	Symbol	Rating	Unit	
Collector to Base Voltage	$V_{CBO}$	KSD1616	60	V
		KSD1616A	120	
Collector to Emitter Voltage	$V_{CEO}$	KSD1616	50	V
		KSD1616A	60	
Emitter to Base Voltage	$V_{EBO}$	6.0	V	
Collector Current - Continuous	$I_C$	1.0	A	
Collector Current – Continuous(Pulse)	$I_{CP}$	2.0	A	

T83

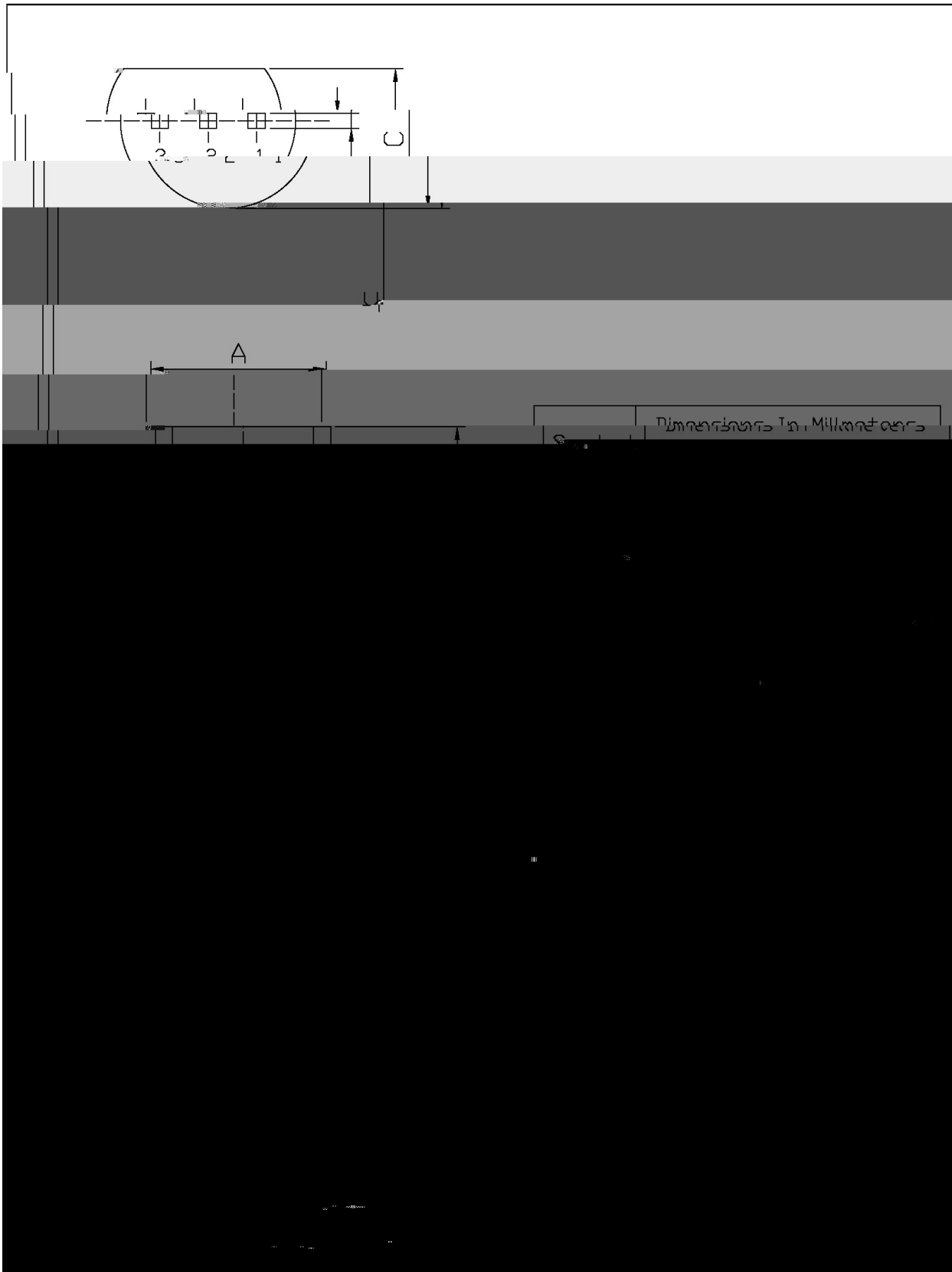
/ Electrical Characteristic Curve



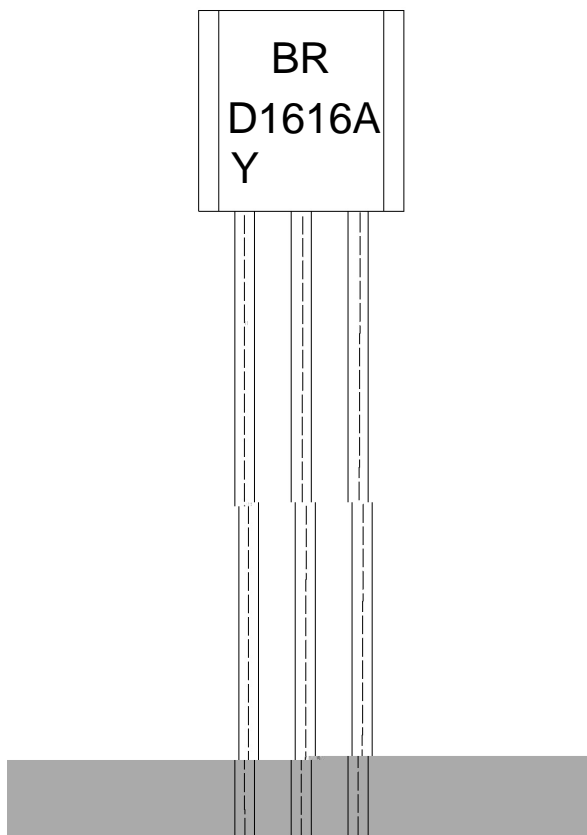
/ Package Dimensions

T0-92

Unit: mm



**/ Marking Instructions**



BR:

D1616A

Y:  $h_{FE}$

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Note:

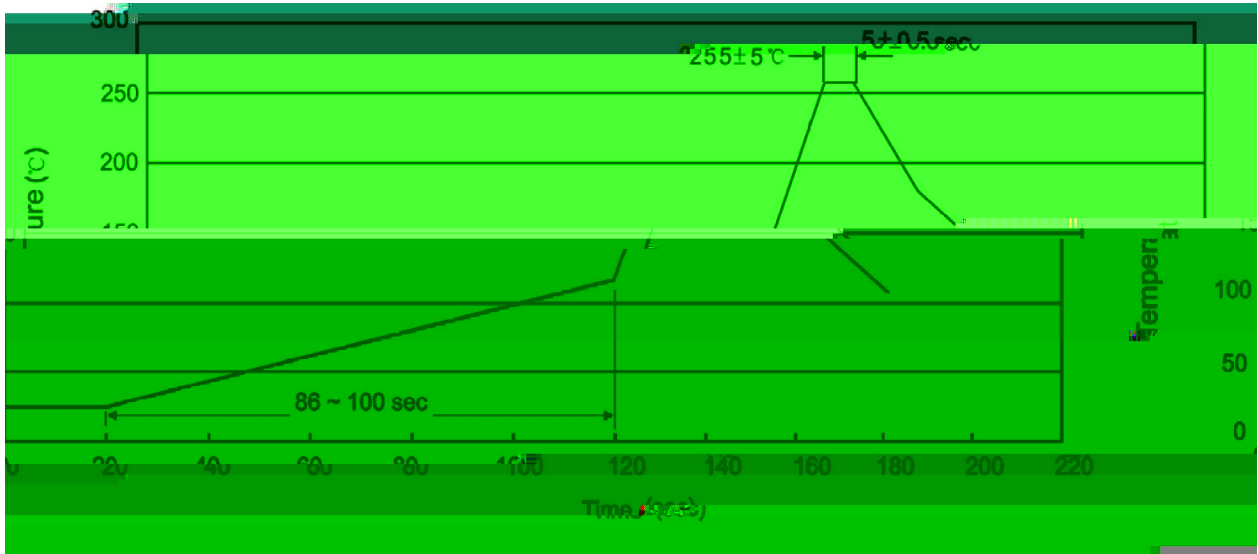
BR: Company Code.

D1616A: Product Type.

Y:  $h_{FE}$  Classifications Symbol

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

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



- |   |       |     |           |        |   |                                      |
|---|-------|-----|-----------|--------|---|--------------------------------------|
| 1 | 25    | 150 | 60        | 90sec; | Note:                                   | 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 封装形式	Units 包装数量	Dimension 包装尺寸 (unit: mm)
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