

# 2SD667(A)T

Rev.A May.-2016

## / Descriptions

SOT-89          NPN          Silicon NPN transistor in a SOT-89 Plastic Package.

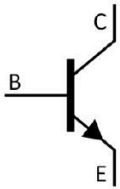
## / Features

2SB647(A)T  
Complementary pair with 2SB647(A)T.

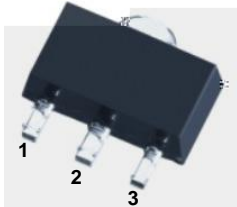
## / Applications

Low frequency power amplifier.

## / Equivalent Circuit



## / Pinning



PIN1 Base          PIN 2 Collector          PIN 3 Emitter

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

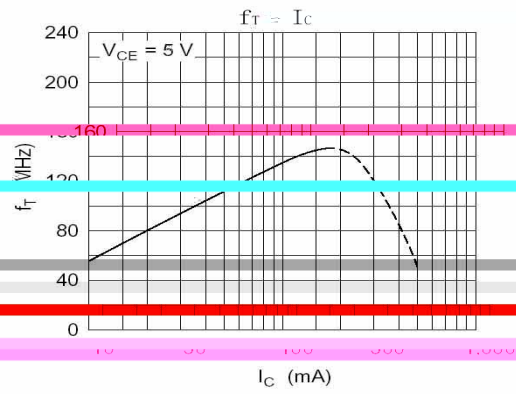
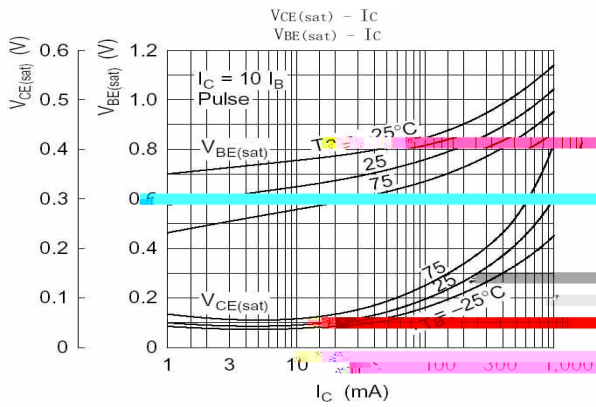
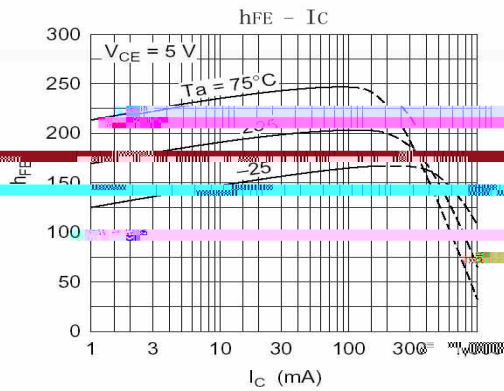
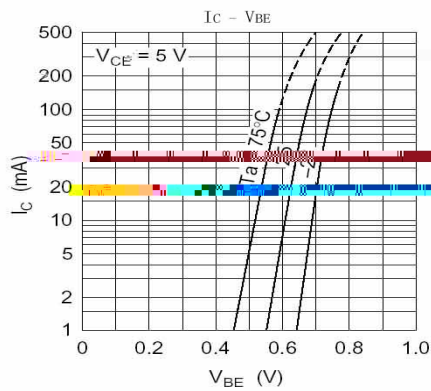
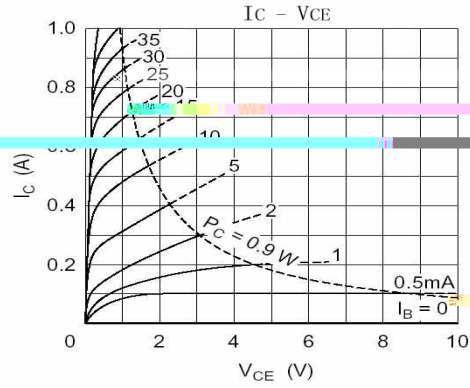
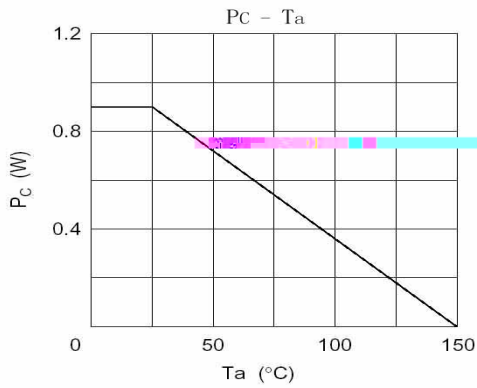
$h_{FE}$ Classifications Symbol	B	C	D
$h_{FE}$ Range	60 120	100 200	160 320
Marking	H67B * * *	H67C * * *	H67D * * *

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	120	V
Collector to Emitter Voltage	$V_{CEO}$	2SD667T	80
		2SD667AT	100
Emitter to Base Voltage	$V_{EBO}$	5.0	V
Collector Current (DC)	$I_C$	1.0	A
Collector Current (Pulse)	$I_{CP}$	2.0	A
Collector Power Dissipation	$P_C$	500	mW
Collector Power Dissipation*	* $P_C$	1.0	W
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

\*:mounted on ceramic substrate(250mm<sup>2</sup>×0.8t).

\* 250mm

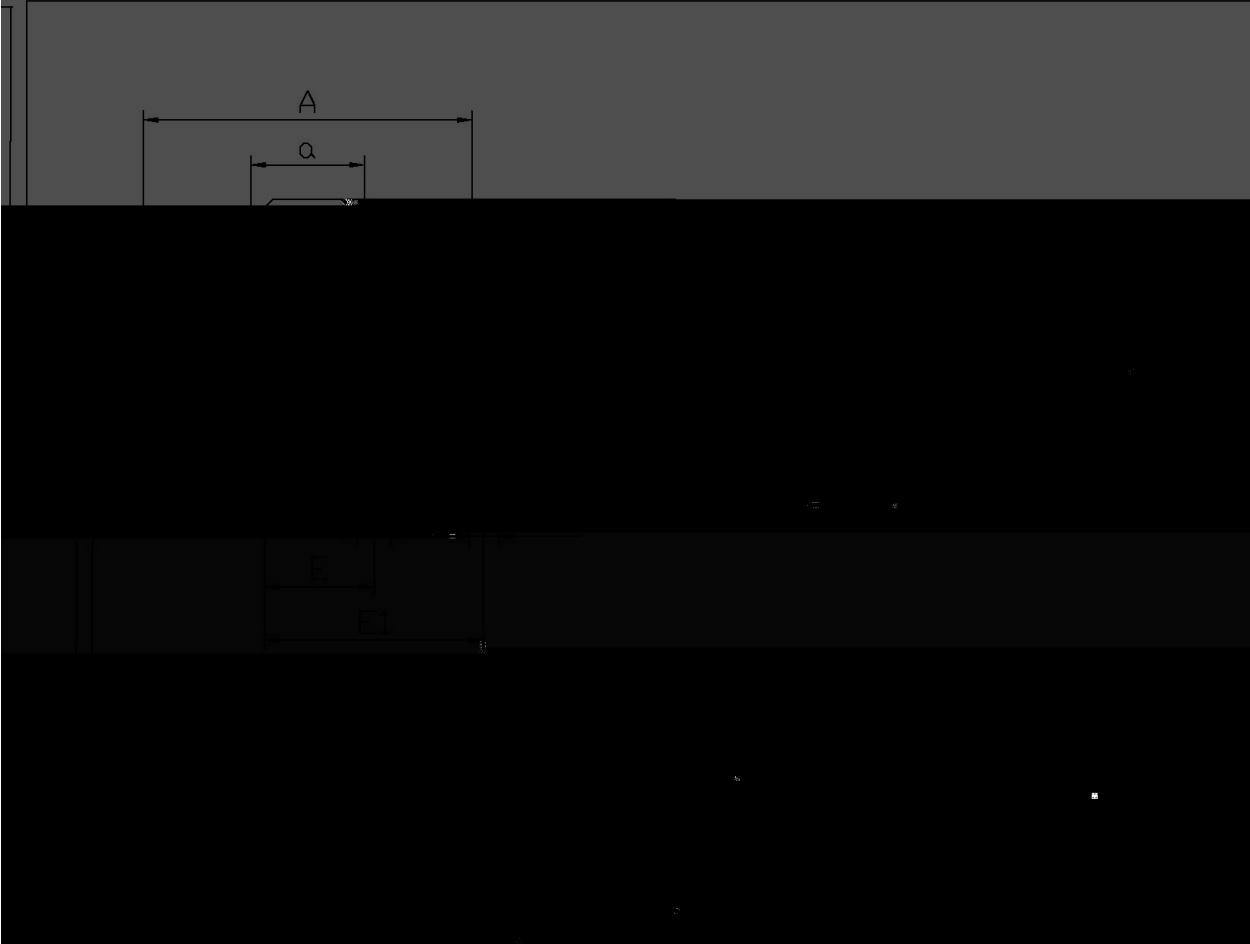
**/ Electrical Characteristic Curve**



/ Package Dimensions

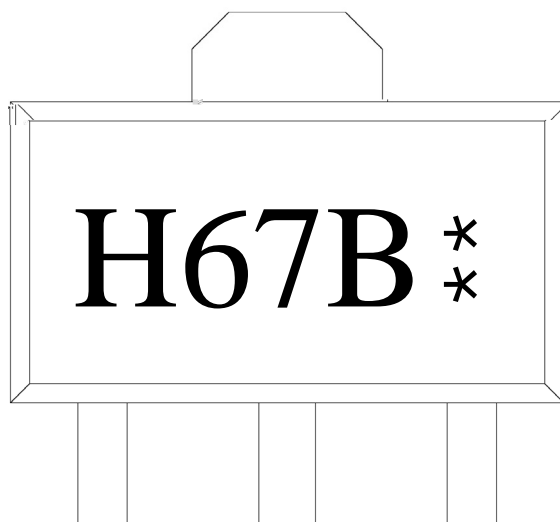
SOT-89

单位: mm



E	1.40	1.60	C	1.40	1.70
a	1.45	1.65	c1	0.35	0.50
E	1.40	1.60	P	6°	
F1.	2.90	3.20			
b	0.80	1.20			

/ Marking Instructions



H:

67

B:

$h_{FE}$

\*\*

Note:

H: Company Code.

67: Product Type.

B:  $h_{FE}$  Classifications Symbol

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

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