

/ Descriptions

Silicon NPN transistor in a SOT-89 Plastic Package.

/ Features

Complementary pair with 2SB647(A)T.

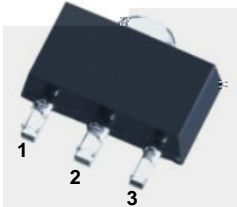
/ Applications

Low frequency power amplifier.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

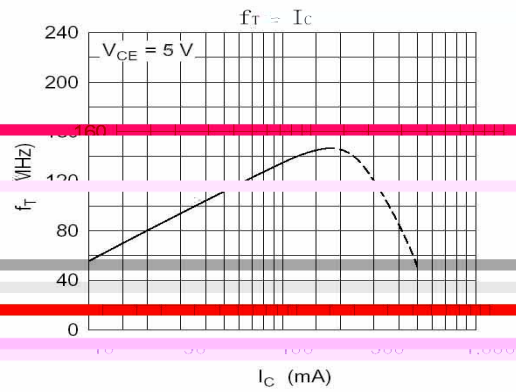
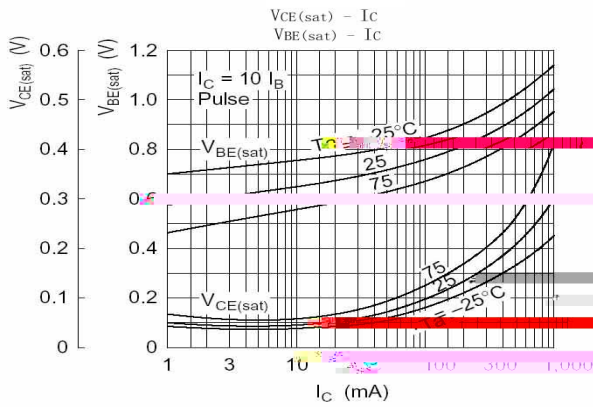
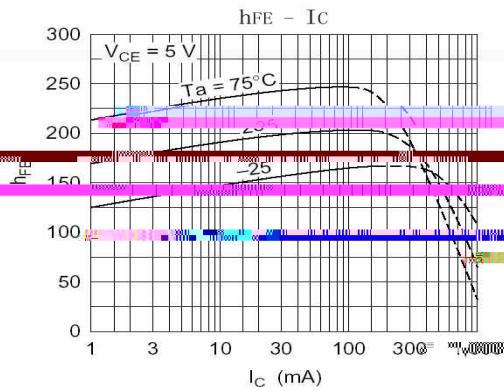
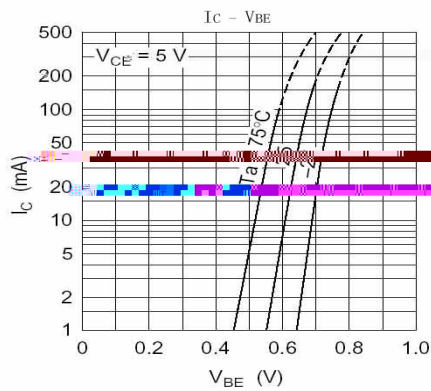
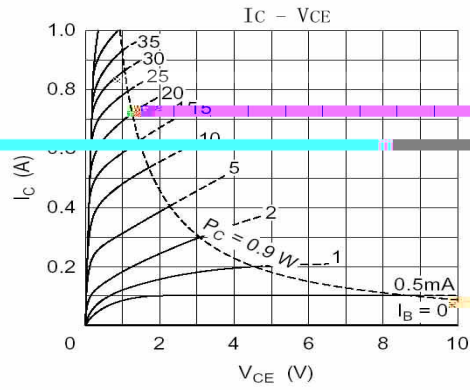
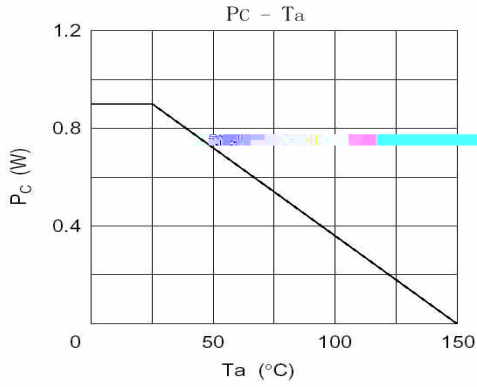
/ h_{FE} Classifications & Marking

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(250mm²×0.8t).

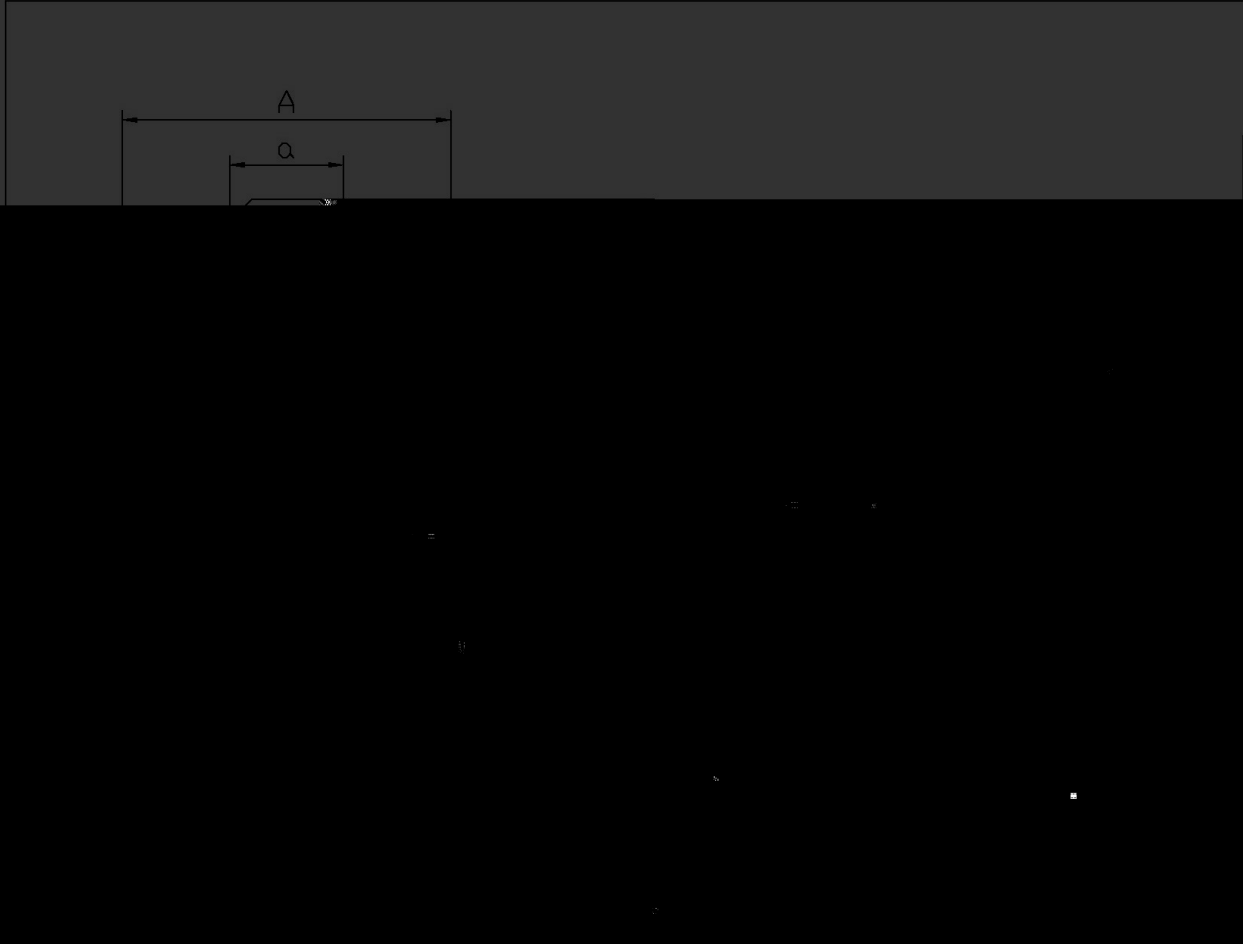
/ Electrical Characteristic Curve



/ Package Dimensions

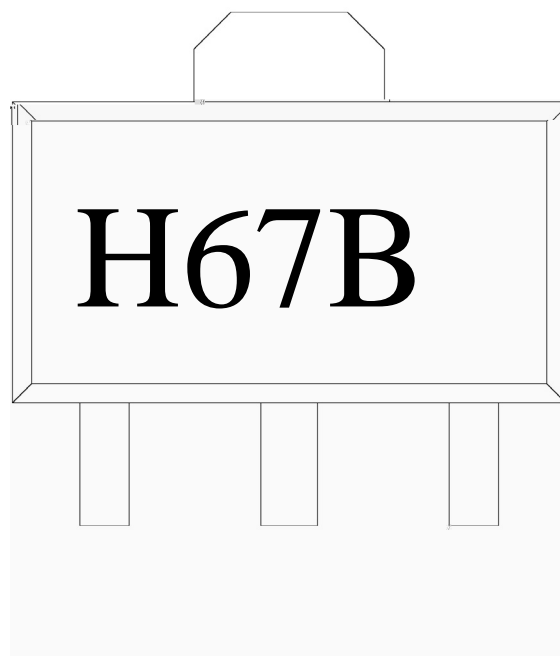
SOT-89

单位: mm



E	1.40	1.70	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



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)