

# BR2SD667(A)TQ

Rev.A Apr.-2023

## / Descriptions

Silicon NPN transistor in a SOT-89 Plastic Package.

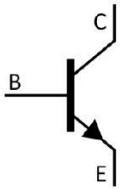
## / Features

Complementary pair with BR2SB647(A)TQ, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

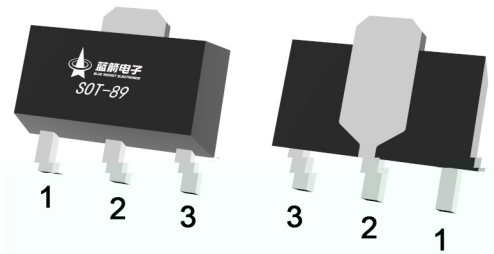
## / Applications

Low frequency power amplifier, Meet the stringent requirements of automotive applications.

## / Equivalent Circuit



## / Pinning



PIN1 Base      PIN 2 Collector      PIN 3 Emitter

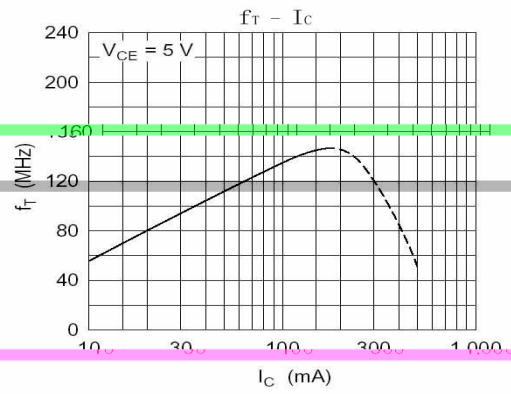
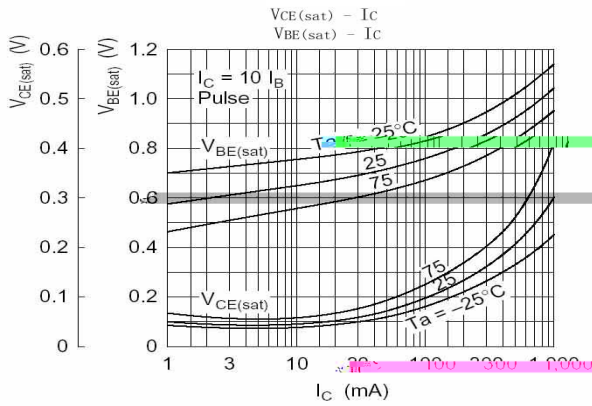
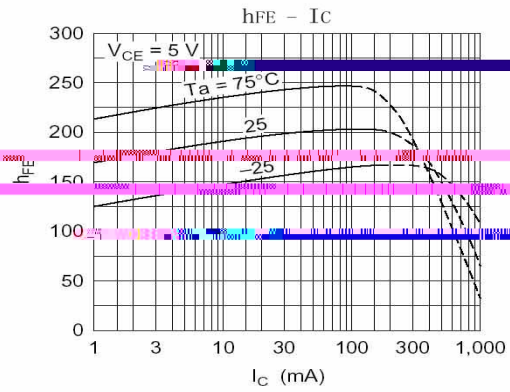
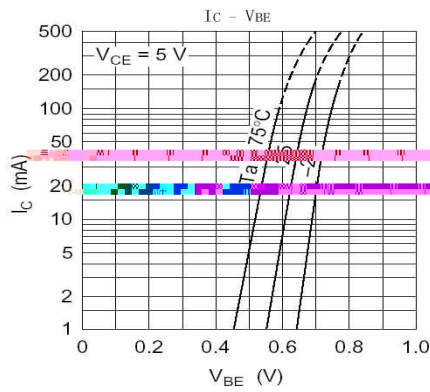
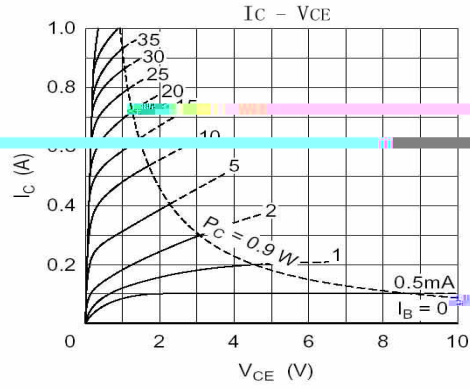
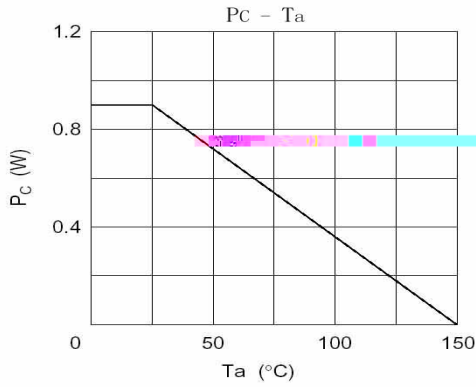
## / h<sub>FE</sub> Classifications & Marking

h <sub>FE</sub> Classifications Symbol	B	C	D
h <sub>FE</sub> Range	60 120	100 200	160 320
Marking	Q67B * **	Q67C * **	Q67D * **

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Parameter

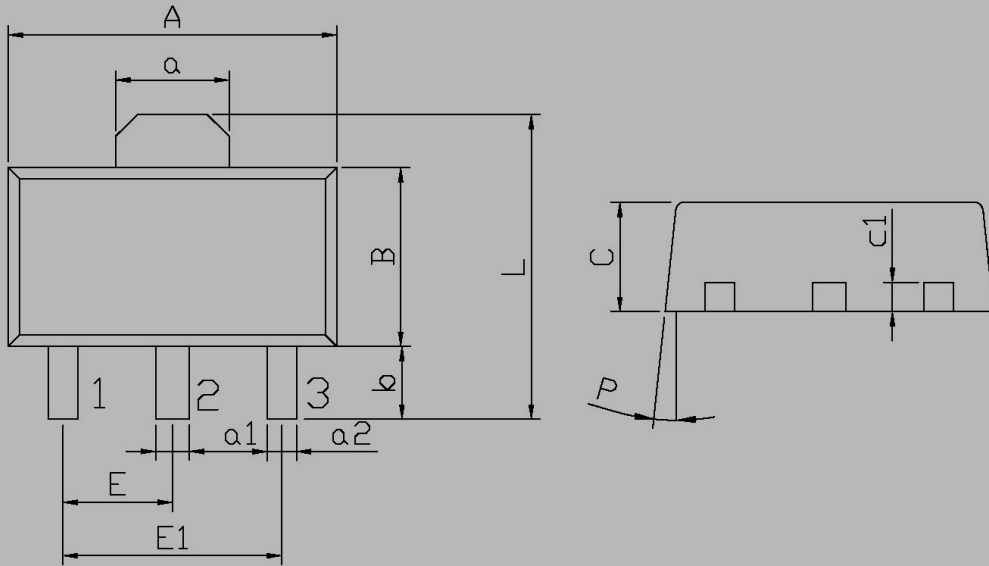
**/ Electrical Characteristic Curve**



/ Package Dimensions

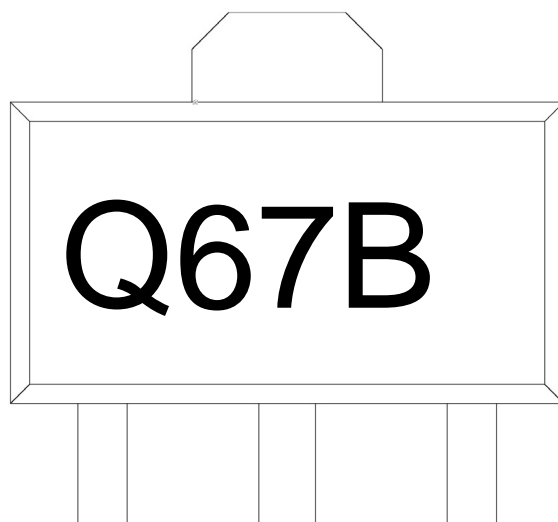
SOT-89

单位: mm



Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
A	4.4	4.7	a1	0.36	0.56
B	2.35	2.65	a2	0.30	0.50
L	3.878	4.478	C	1.40	1.71
a	1.45	1.65	c1	0.35	0.50
E	1.40	1.60	P	6°	
E1	2.80	3.20			
b	0.80	1.20			

**/ Marking Instructions**



Note:

- Q: Automobile halogen-free product Code
- 67: Product Type
- B:  $h_{FE}$  Classifications Symbol
- \*\* : Lot No. Code,code change with Lot No

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


Note:

1            150 200            60 120sec;    1.Preheating:150~200