

/ Descriptions

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

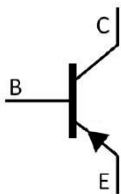
/ Features

BR2SD669TAQ AEC-Q101
Complementary pair with BR2SD669TAQ,Qualified to AEC-Q101 Standards for High Reliability, HF Product.

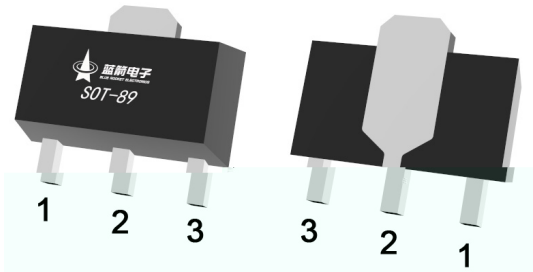
/ Applications

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

/ Equivalent Circuit



/ Pinning



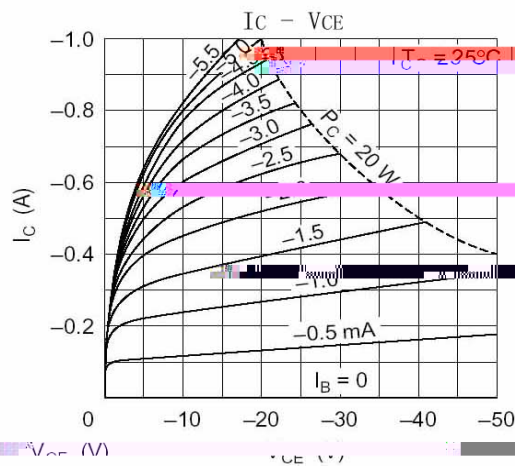
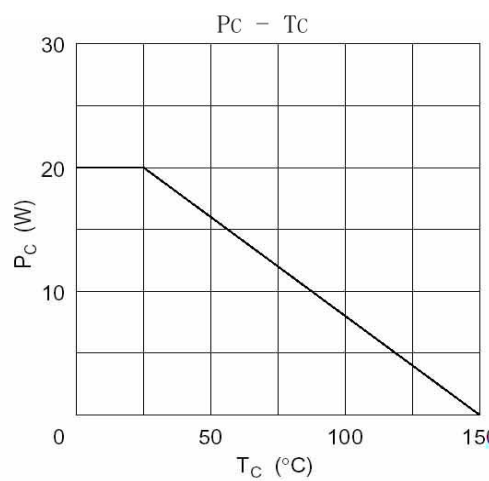
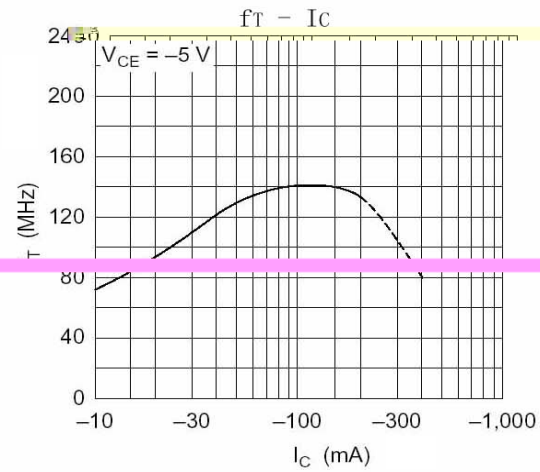
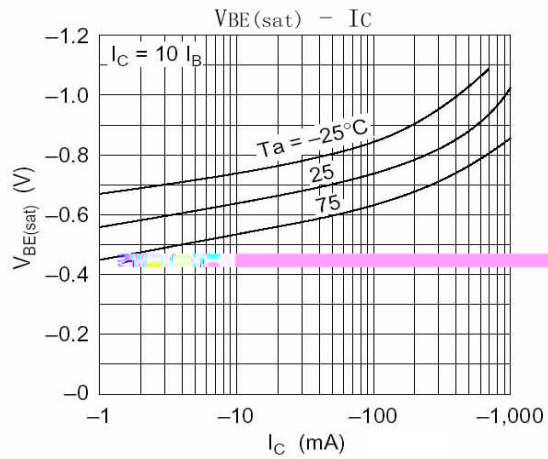
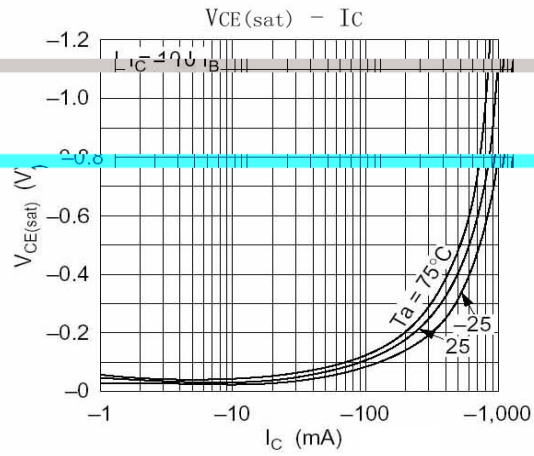
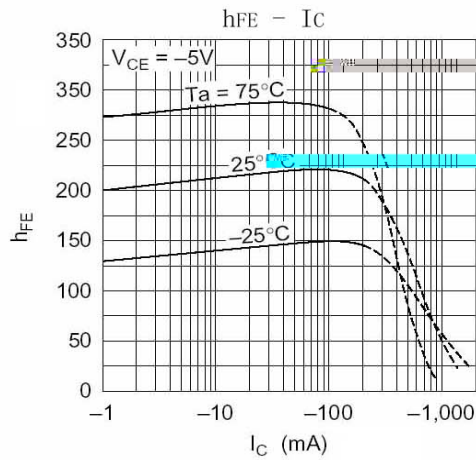
PIN1 Base PIN 2 Collector PIN 3 Emitter

/ h_{FE} Classifications & Marking

h _{FE} Classifications Symbol	B	C	D
h _{FE} Range	60 120	100 200	160 320
Marking	Q649B*	Q649C*	Q649D*

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}		

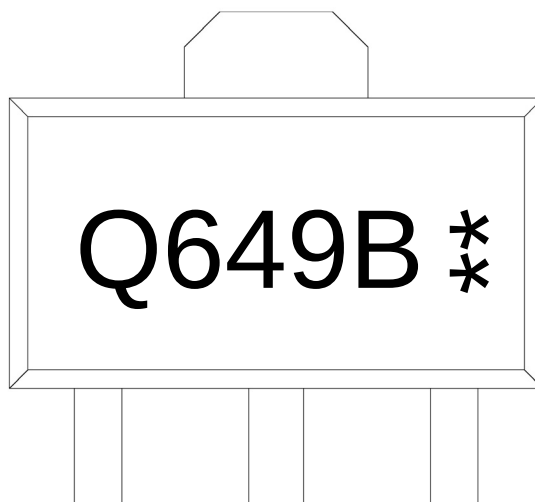
/ Electrical Characteristic Curve



BR2SB649TAQ



/ Marking Instructions



Q

649

B

h_{FE}

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Note:

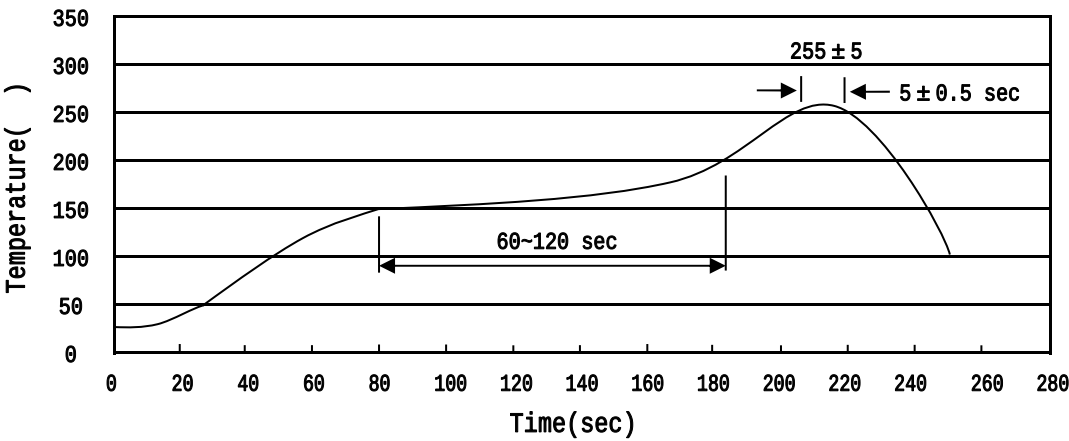
Q: Automobile halogen-free product Code

649: Product Type Code

B h_{FE} Classifications Symbol

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

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1

150 200

60 120sec;

1.Preheating:150~200 , Time:60~120sec.
- 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

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOT-89	1,000	10	10,000	4	40,000	7 ×12	210×205×205	445×435×230

/ Notices