

SOT-89	NPN	Silicon NPN transistor in a SOT-89 Plastic Package.
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Low voltage, high current, Complementary to BC869.

General purpose switching and amplification, such as audio output stages.



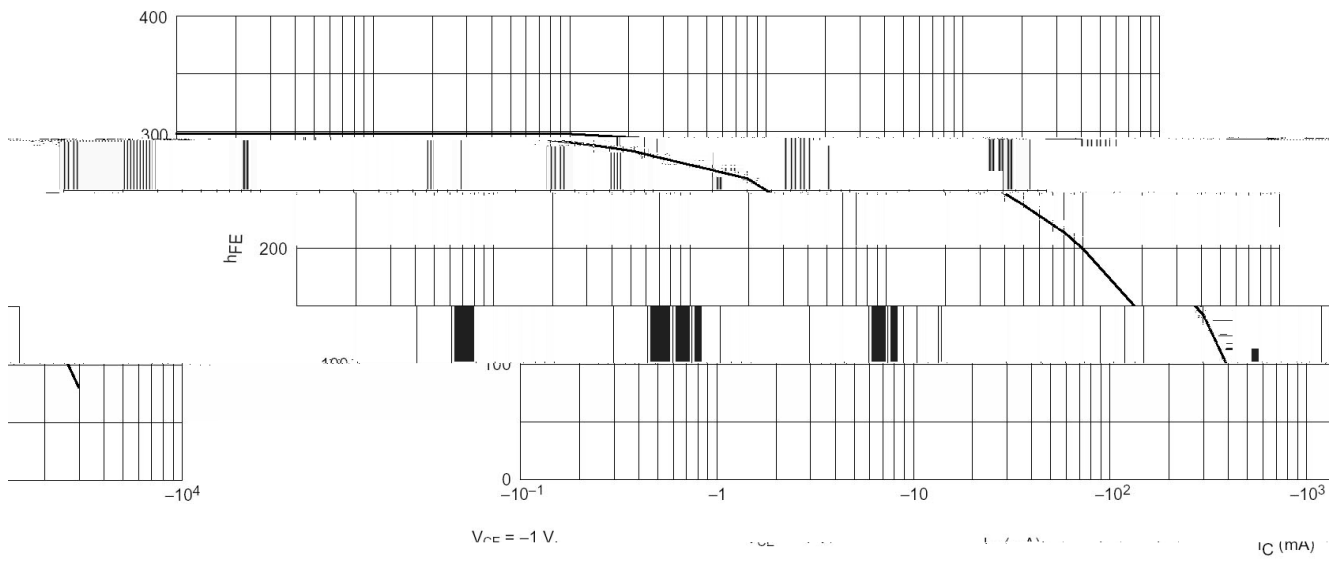
PIN1	Base	PIN 2	Collector	PIN 3	Emitter
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Marking	HCAC**
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Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	32	V
Collector to Emitter Voltage	V_{CEO}	20	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current-Continuous	I_C	1.0	A
Peak Collector Current	I_{CM}	2.0	A
Peak Base Current	I_{BM}	200	mA
Collector Power Dissipation	P_C	1.35	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=25V$ $I_E=0$			0.1	μA
Emitter Base Cut-Off Current	I_{EBO}	$V_{EB}=5.0V$ $I_C=0$			0.1	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=1.0V$ $I_C=500mA$	85		375	
	$h_{FE(2)}$	$V_{CE}=10V$ $I_C=5.0mA$	50			
	$h_{FE(3)}$	$V_{CE}=1.0V$ $I_C=1.0A$	60			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=1.0A$ $I_B=100mA$			500	mV
Base to Emitter Voltage	$V_{BE(1)}$	$V_{CE}=10V$ $I_C=5.0mA$		620		mV
	$V_{BE(2)}$	$V_{CE}=1.0V$ $I_C=1.0A$			1.0	V

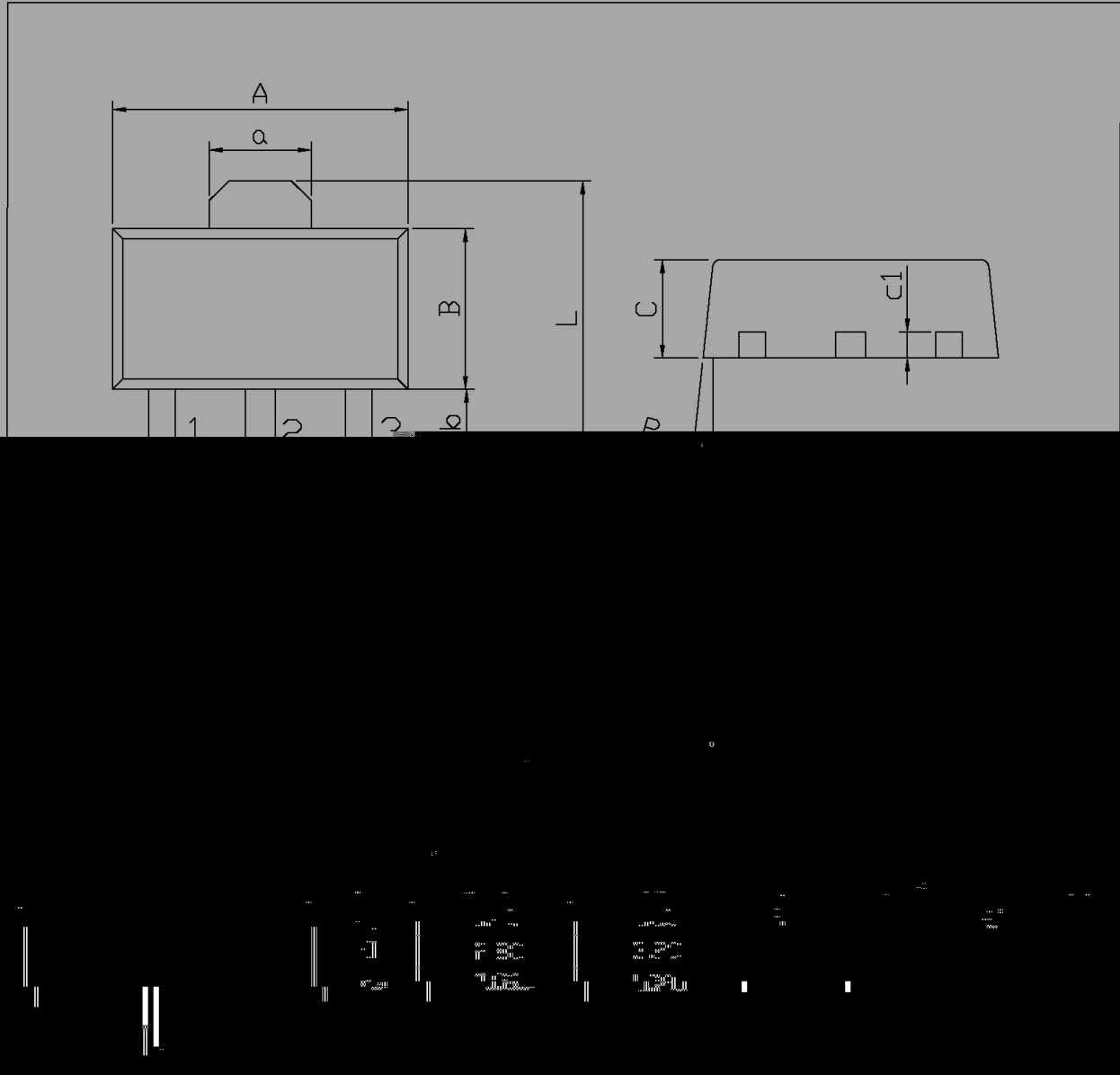
β_{FE}



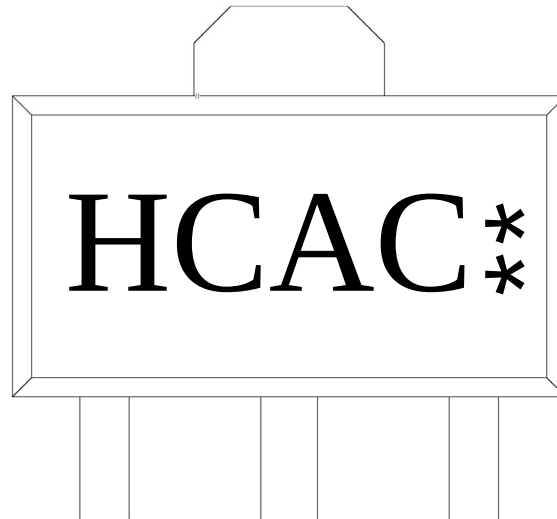
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SOT-89

单位: mm



1. 符号



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CAC

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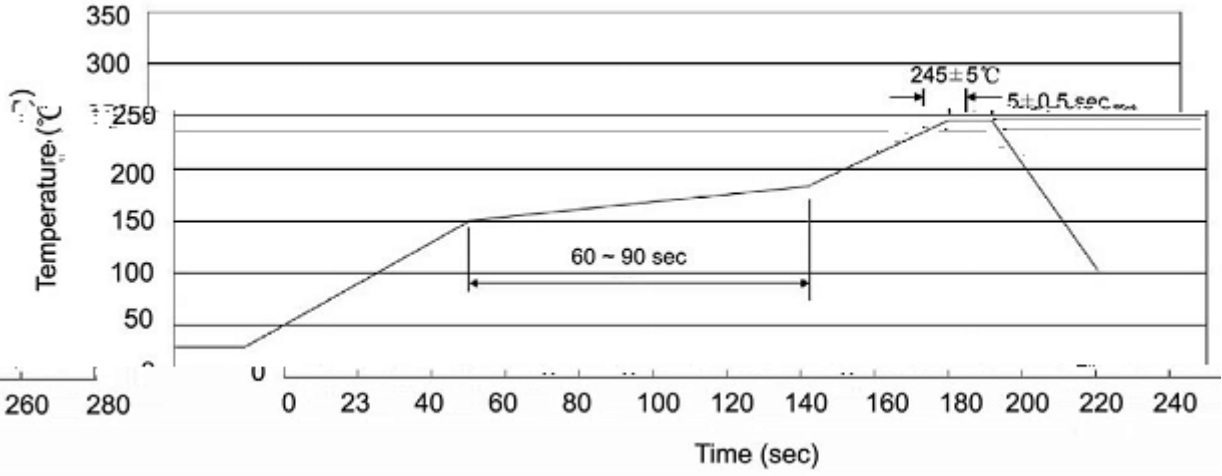
Note:

H: Company Code.

CAC: Product Type.

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

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- Note:
- 1.Preheating:25~150 , Time:60~90sec.
 - 2.Peak Temp.:245±5 , Duration:5±0.5sec.
 - 3. Cooling Speed: 2~10 /sec.

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

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/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
SOT-89	1,000	7	7,000	8	56,000	7 ×12	180×120×180	385×257×392

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