

Low voltage, high current, Complementary to BC869.



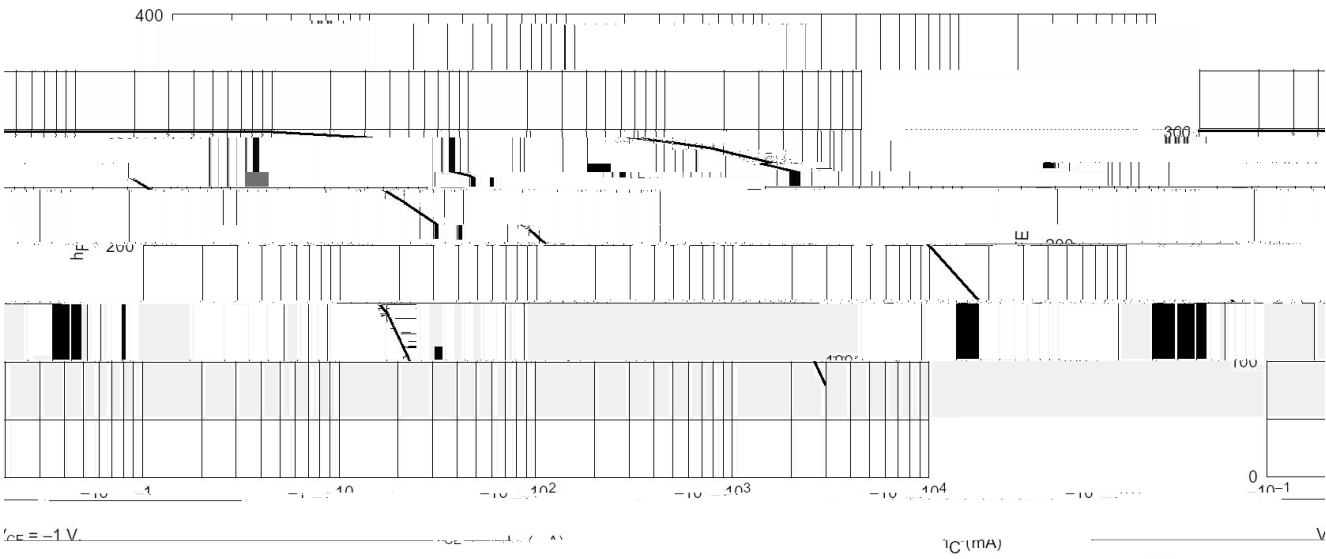
Marking	HCAC [*] _*
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Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	32	V
Collector to Emitter Voltage	V_{CEO}	20	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current-Continuous	I_C	1.0	A
Peak Collector Current	I_{CM}	2.0	A
Peak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

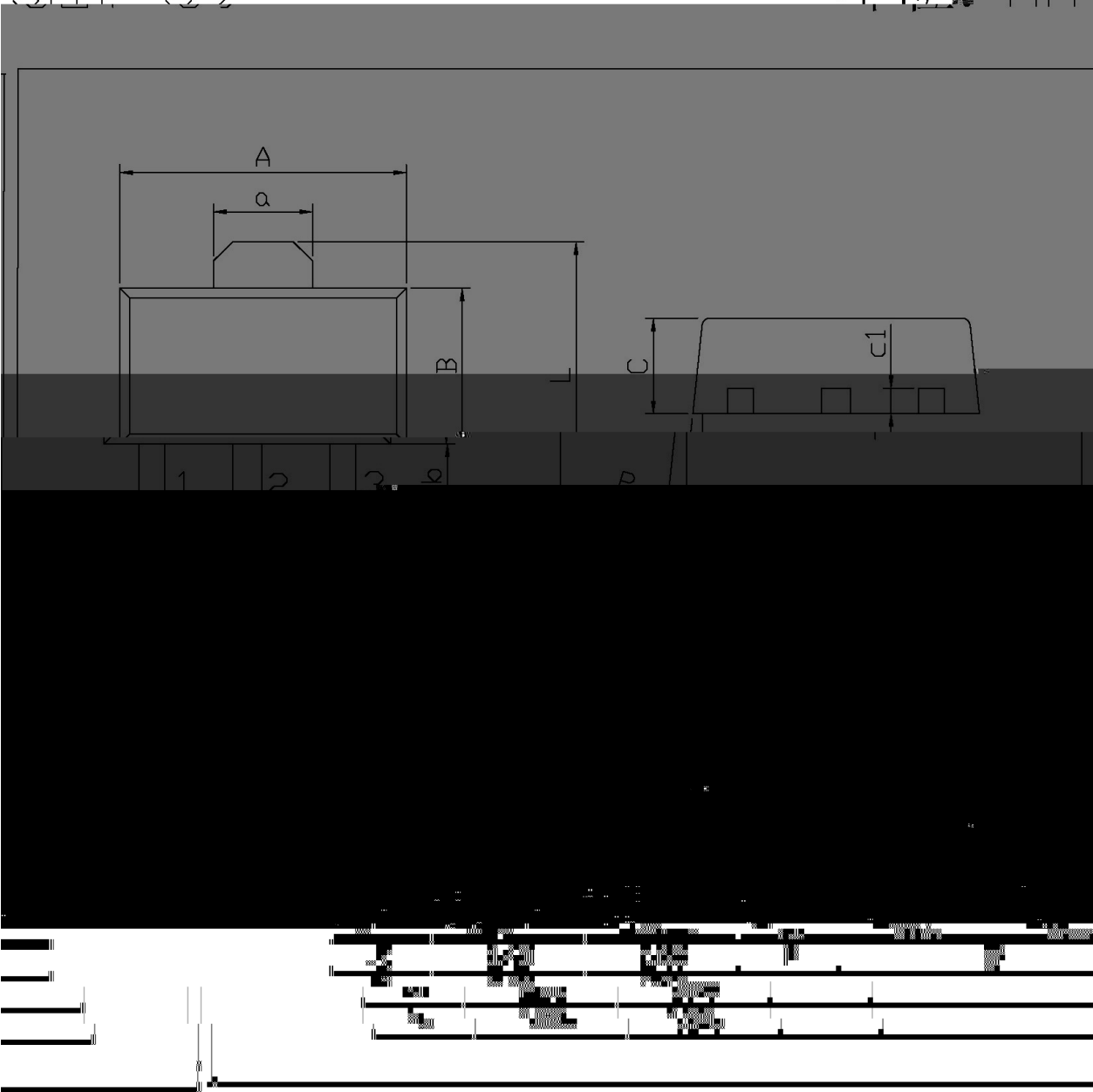
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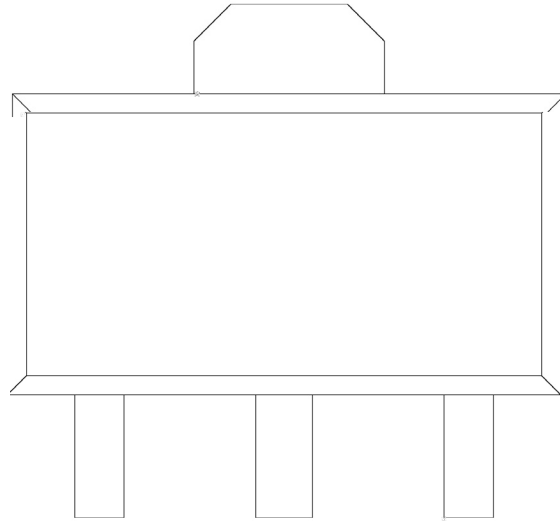
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=25V$ $I_E=0$			0.1	μA
Emitter Base Cut-Off Current	I_{EBO}	$V_{EB}=5.0V$ $I_C=0$			0.1	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=1.0V$ $I_C=500mA$	85		375	
	$h_{FE(2)}$	$V_{CE}=10V$ $I_C=5.0mA$	50			
	$h_{FE(3)}$	$V_{CE}=1.0V$ $I_C=1.0A$	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
Transition Frequency	f_T	$V_{CE}=5.0V$ $f=100MHz$ $I_C=10mA$	40			MHz



SQT-89

单位: mm





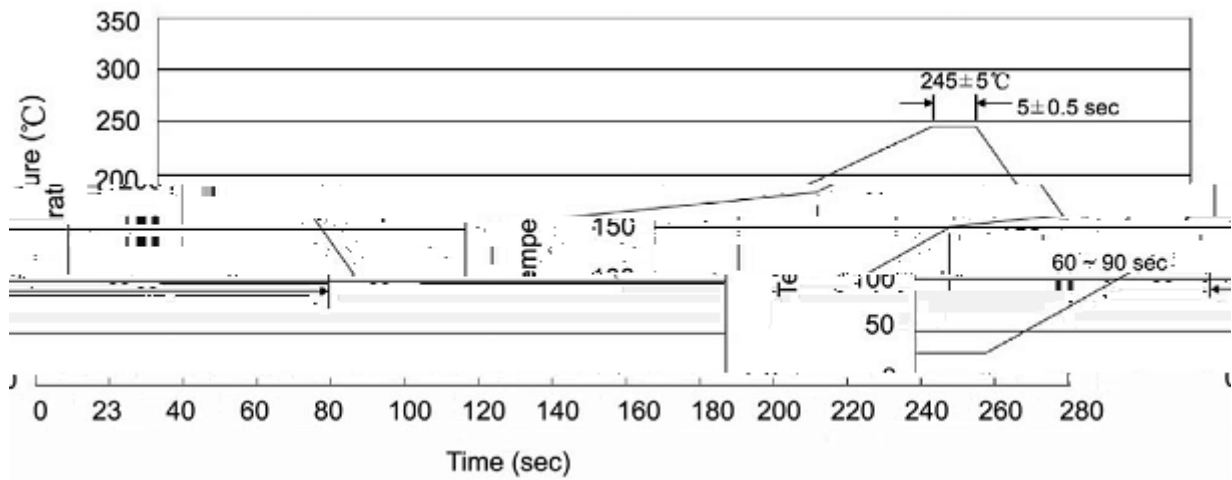
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Note:

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Note:

- 1

25 150%

60 90sec;

1.Preheating:25~150%, Time:60~90sec.
- 2

245[±]5%

5[±]0.5sec;

2.Peak Temp.:245[±]5%, Duration:5[±]0.5sec.
- 3

2 10%/sec.

3. Cooling Speed: 2~10%/sec.

260[±]5%

10[±]1 sec.

Temp.:260±5

Time:10±1 sec

/ 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