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VRW0; < M M E QSQ Æ M ç s ll 1 Silicon NPN transistor in a SOT-89 Plastic Package.

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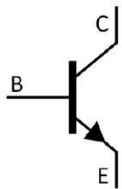
Low voltage, high current, Complementary to BC869.

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

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PIN1 ç Base

PIN 2 ç Collector

PIN 3 ç Emitter

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Marking	HCAC*
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静态特性

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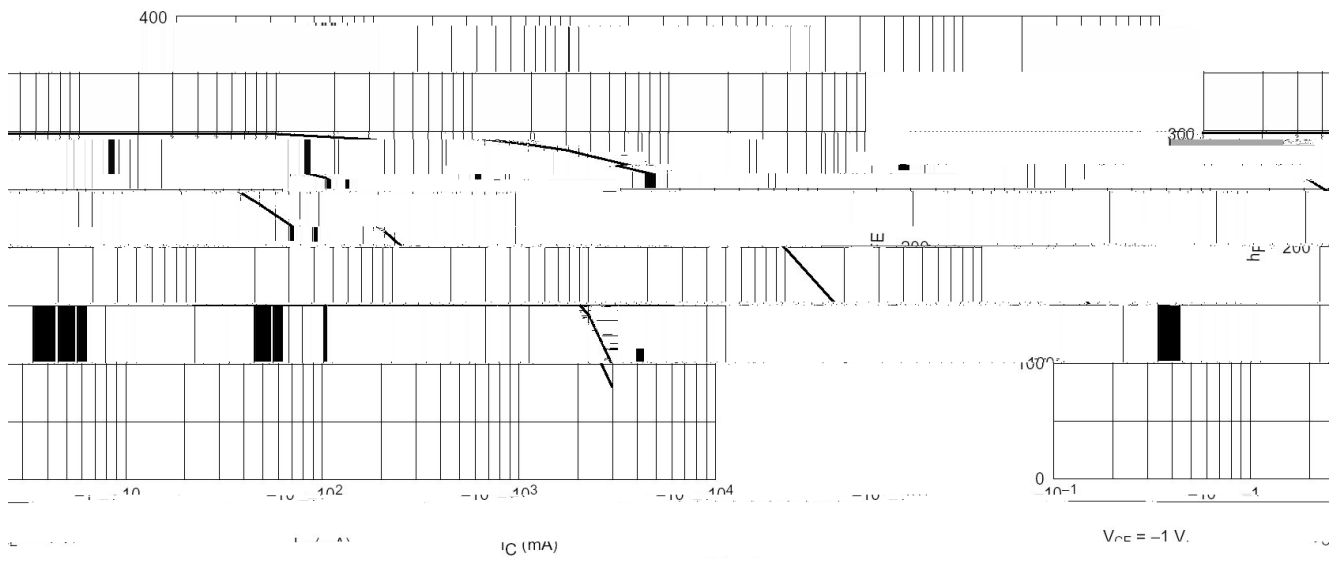
参数 Parameter	符号 Symbol	额定值 Rating	单位 Unit
Collector to Base Voltage	V_{CBO}	32	V
Collector to Emitter Voltage	V_{CEO}	20	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current-Continuous	I_C	1.0	A
Peak Collector Current	I_{CM}	2.0	A
Peak Base Current	I_{BM}	200	mA
Collector Power Dissipation	P_C	1.35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

动态特性

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参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 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

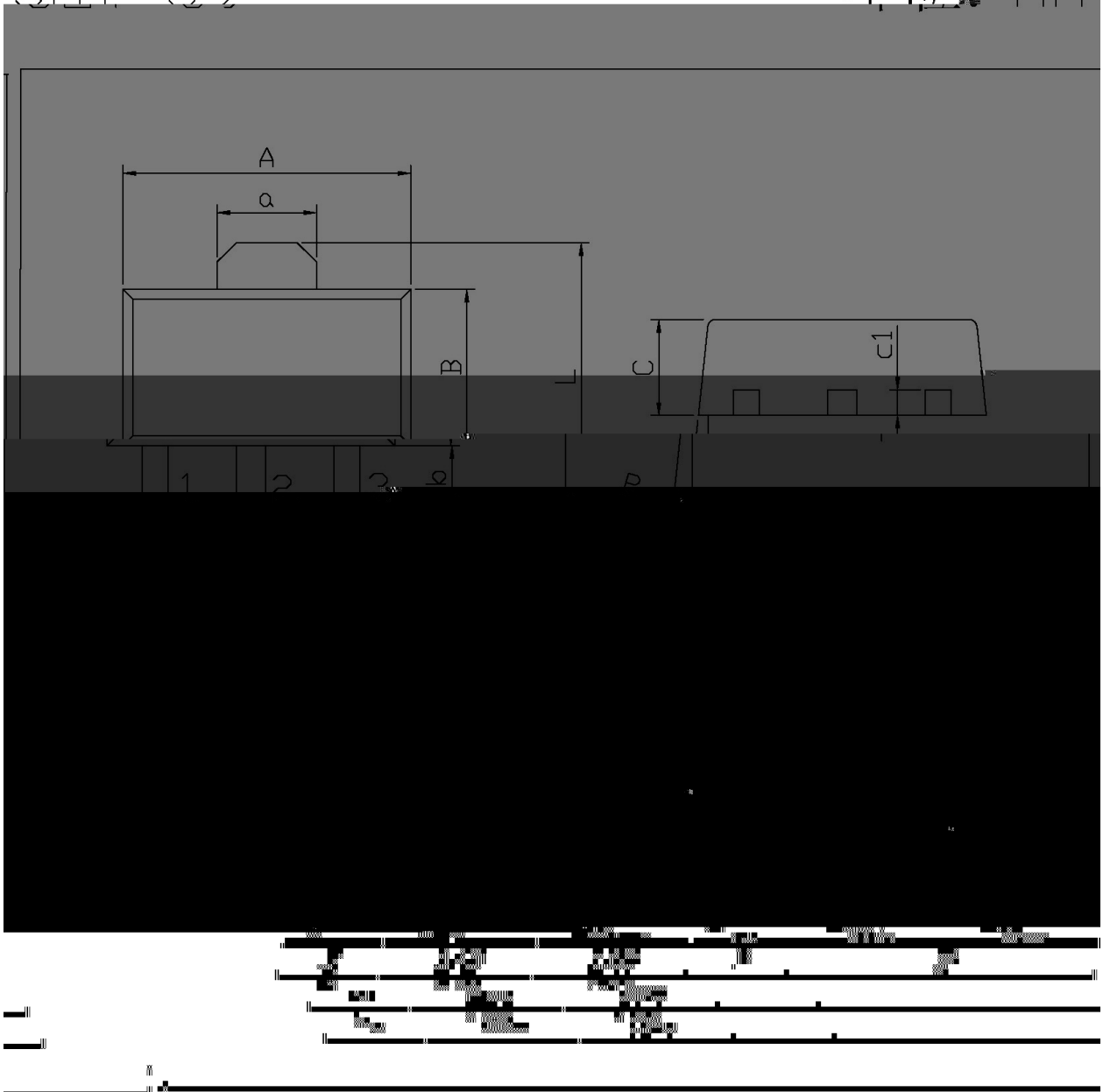
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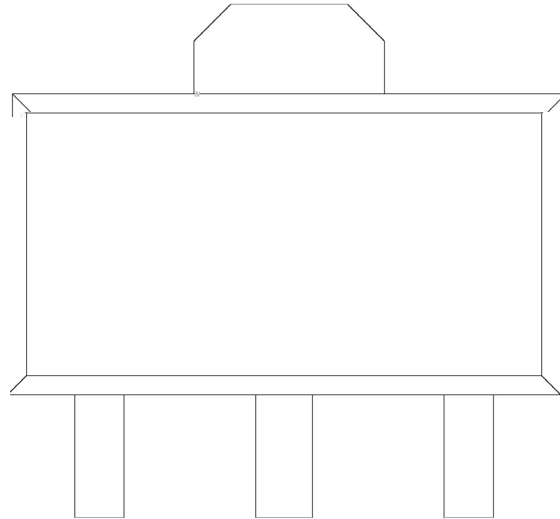
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SQT-89

单位: mm



4. 引脚



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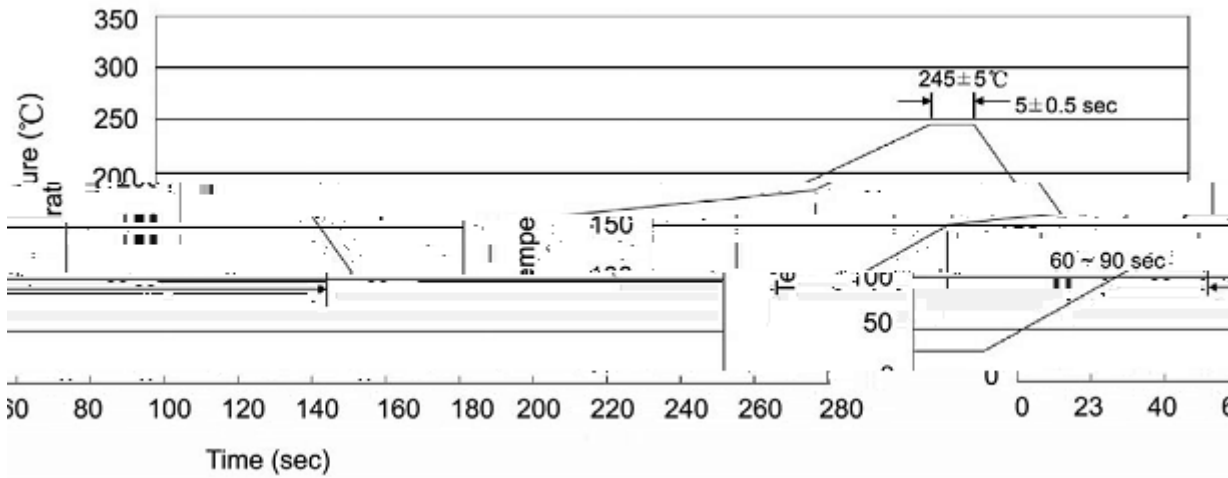
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Note:

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

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

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□ °C 260±5 °C °C 10±1 sec. Temp.:260±5 Time:10±1 sec

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°C °C / 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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