

2SD965T / Descriptions

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

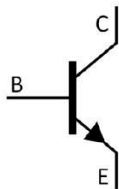
2SD965T / Features

Low $V_{CE(sat)}$, high performance.

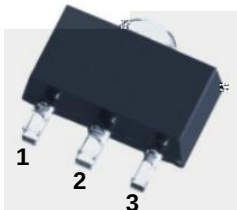
2SD965T / Applications

Audio frequency output amplifier.

2SD965T / Equivalent Circuit



2SD965T / Pinning



PIN1 χ Base PIN 2 χ Collector PIN 3 χ Emitter

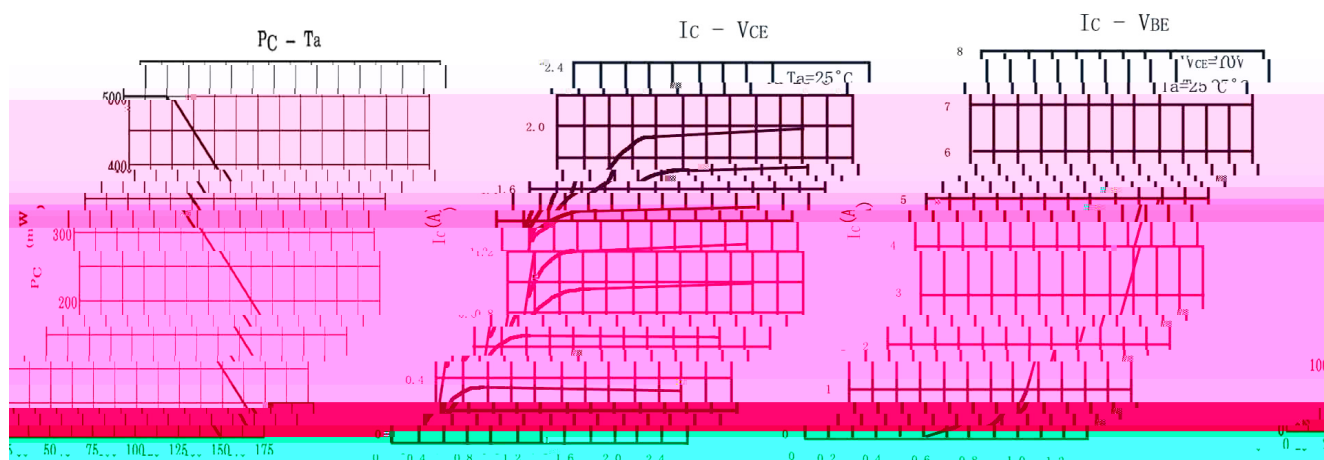
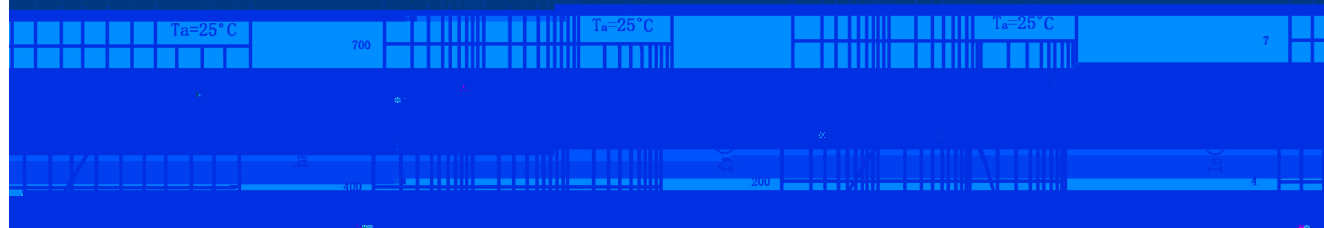
2SD965T / Marking

h_{FE} Classifications Symbol	P	Q	R	S
h_{FE} Range	180 270	230 380	340 600	560 1000
Marking	H65P*	H65Q	H65R	H65S

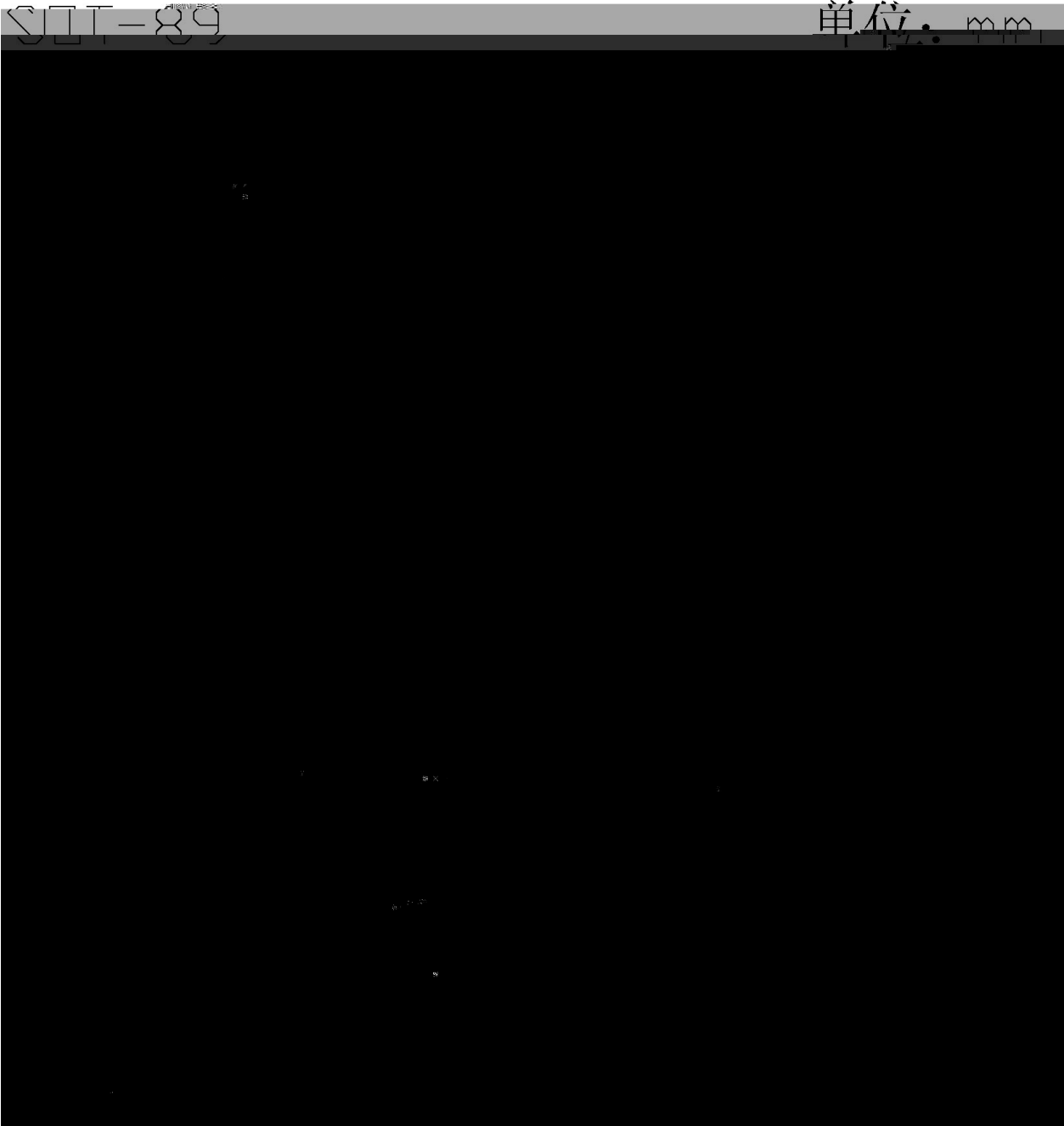
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	40	V
Collector to Emitter Voltage	V_{CEO}	20	V
Emitter to Base Voltage	V_{EBO}	7.0	V
Collector Current-Continuous	I_C	5.0	A
Collector Current -Continuous(Pulse)	I_{CP}	8.0	A
Collector Power Dissipation	P_C	500	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=1.0mA$ $I_B=0$	20			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=10 A$ $I_C=0$	7.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=10V$ $I_E=0$			0.1	A

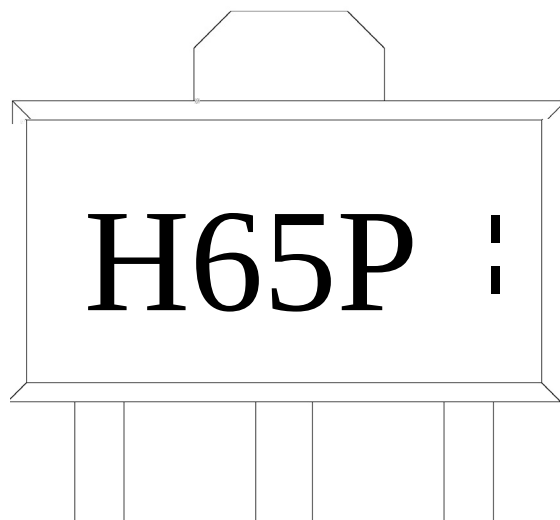
电 气 特 性 曲 线 / Electrical Characteristic Curve



封装尺寸 / Package Dimensions



1. 标记 / Marking Instructions



标记

H 公司代码

65 产品类型

P h_{FE} 分类符号

-- 批号 1 4 1 5 6 7 8 9 0

Note:

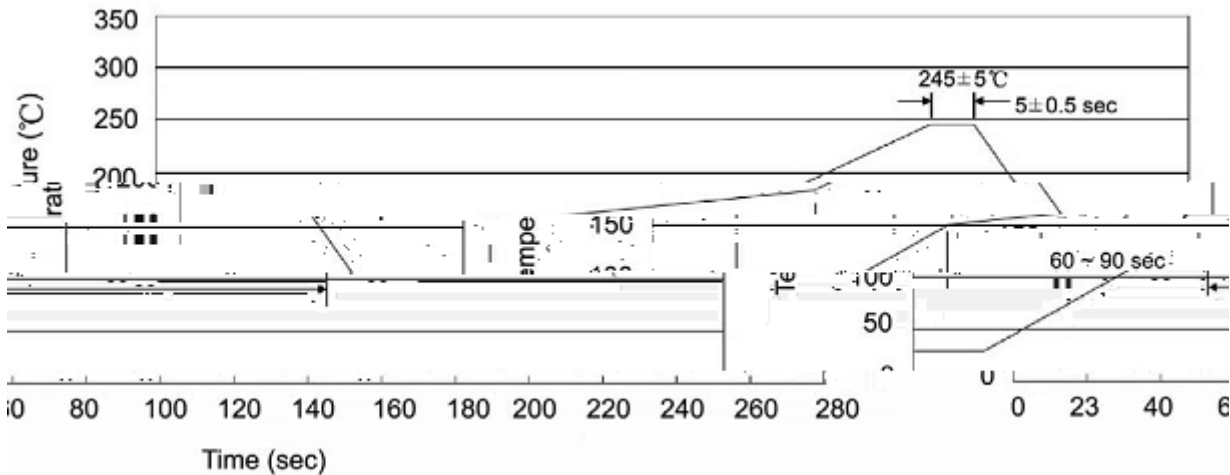
H: Company Code.

65: Product Type.

P h_{FE} Classifications Symbol

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

Thermal Characteristics / 热特性



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

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

Resistance to Soldering Heat Test Conditions / 焊接热阻测试条件

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

Packaging SPEC. / 封装规格

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