2SD965T

Rev.E Mar.-2016

蓝箭电子
BLUE ROCKET ELECTRONICS
DATA SHEET

/ Descriptions

VRW0;< ṂṂ Ŀ QSQ ÆṀ ɥ s ǁ ߁ Silicon NPN transistor in a SOT-89 Plastic Package.

/ Features

ت ⊐ ᴙ ں Ḩ/ـحـ ớ ȋ

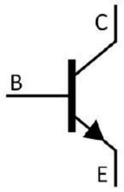
Low $V_{CE(sat)}$,high performance.

/ Applications

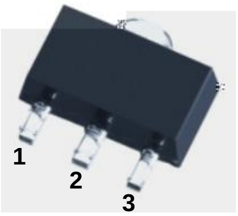
ᵼ̂ ـ إ ڑ ؤ ۼ

Audio frequency output amplifier.

/ Equivalent Circuit



/ Pinning



PIN1 χ Base PIN 2 χ Collector PIN 3 χ Emitter

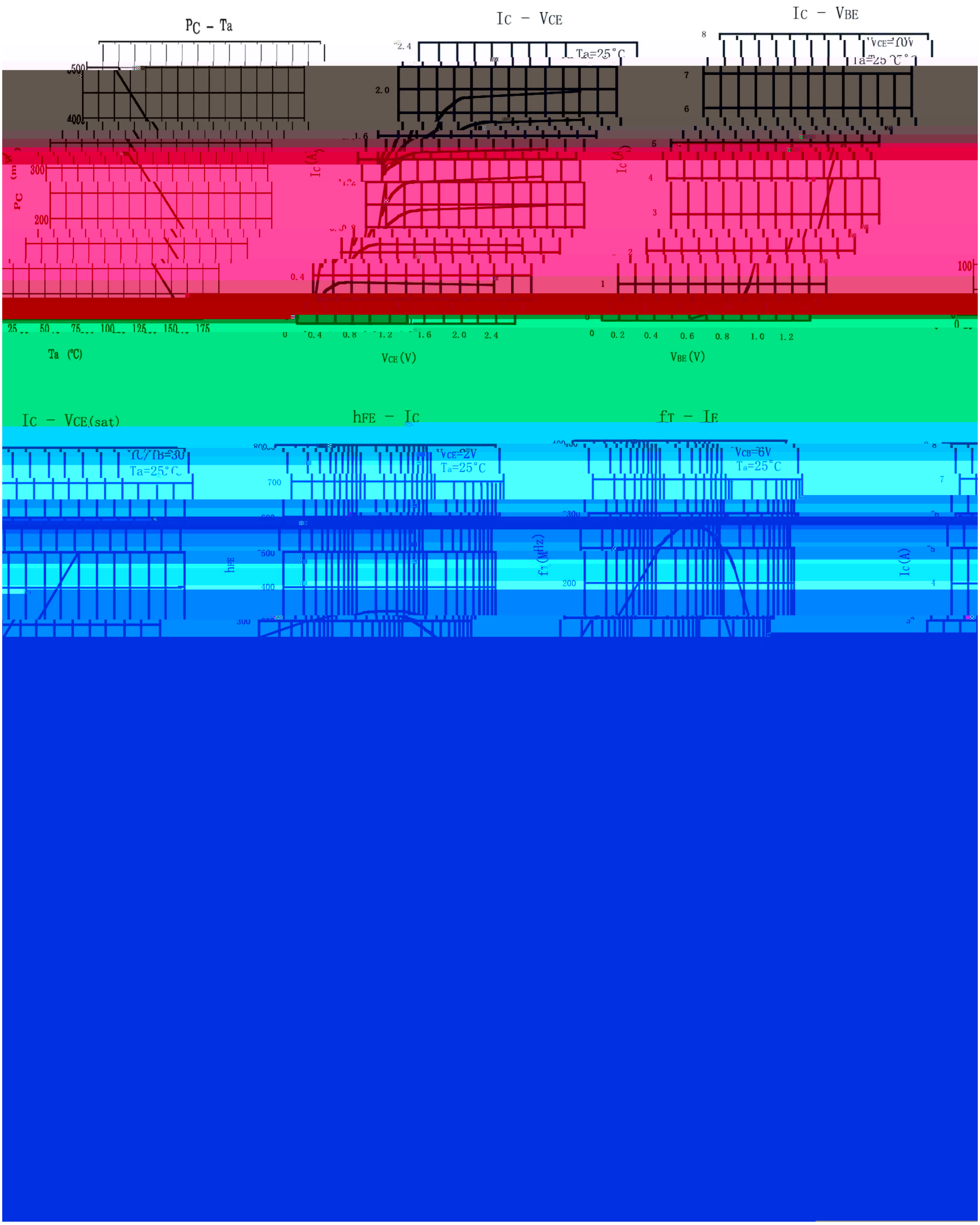
/ Marking

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

v Ὢ Parameter	ɻ ᴺ Symbol	Ὢ Ӫ Rating	ᴅ Ᵹ 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(Pluse)	I_{CP}	8.0	A
Collector Power Dissipation	P_C	500	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

v Ὢ Parameter	ɻ ᴺ Symbol	╜ ፧ᛙ ƫ Test Conditions	ῳ ṇ Ӫ Min	Ɛ ȥ Ӫ Typ	ῳ ᶻ Ӫ Max	ᴅ Ᵹ 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

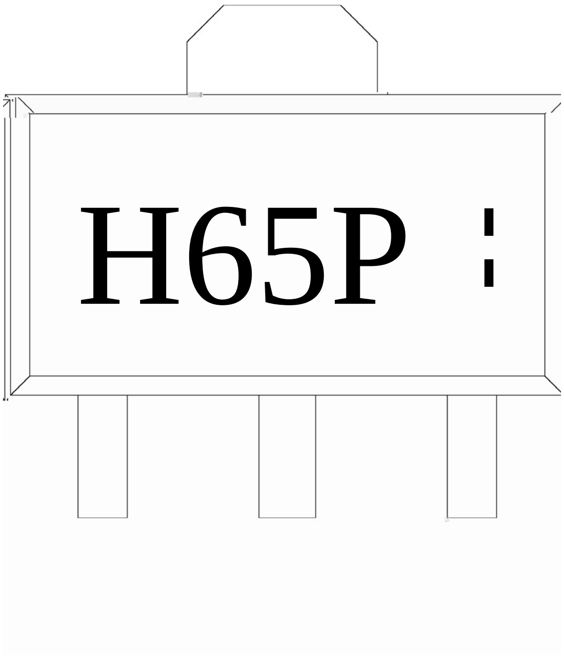
/ Electrical Characteristic Curve



/ Package Dimensions

SOT-89 单位：mm

/ Marking Instructions



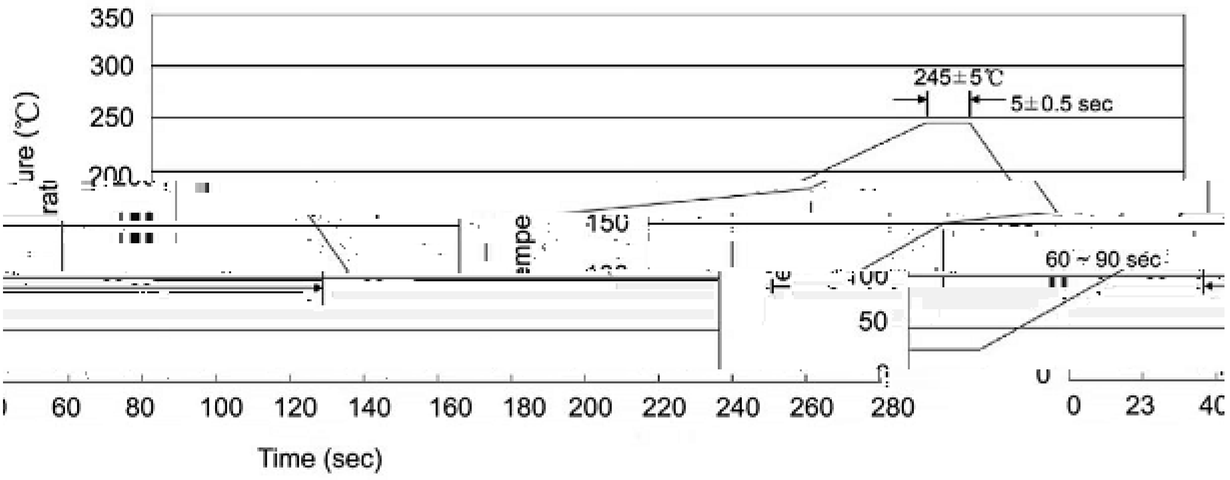
ب ˝ χ

H χ	ꟸ ꞅ ᴻ Ђ
65 χ	ꟸ ʒ ᴺ Ђ
P χ	ꟸ h_{FE} ˂ ⁶ Ђ
-- χ	ꟸ ˧ ƒ ῇ ᴺ Ђ ˡ ȹ ˧ ƒ ῇ ᴺ ψ ק

Note:

H:	Company Code.
65:	Product Type.
P χ	h_{FE} Classifications Symbol
**:	Lot No. Code, code change with Lot No.

(   ) /



ب ˝ χ	Note:
1 ḯ ♬ □ ŷ 25 Ḱ 150 ƚ ı `H ڗ 60 Ḱ 90sec;	1.Preheating:25~150 ƚ , Time:60~90sec.
2 Š � □ ŷ 245 ° 5 ƚ ı `H ڗ `Y ﾒ 㗊 5 ° 0.5sec;	2.Peak Temp.:245 ° 5 ƚ , Duration:5 ° 0.5sec.
3 ì ˙ ꓬ ˛ ɔ ޏ ŷ 㗊 2 Ḱ 10 ƚ /sec.	3. Cooling Speed: 2~10 ƚ /sec.

/ Resistance to Soldering Heat Test Conditions

□ ŷ χ 260 ° 5 ƚ   `H ڗ χ 10 ° 1 sec.   Temp.:260±5   Time:10±1 sec

/ Packaging SPEC.

ᦅ ` ᵞ ⱡ / 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