2SD882N

Rev.E Mar.-2016

蓝箭电子 BLUE ROCKET ELECTRONICS

DATA SHEET

/ Descriptions

SOT-223 Ṃ Ṃ Ƚ QSQ Æ Ṁ ч s ‖ ㄱ Silicon NPN transistor in a SOT-223 Plastic Package.

/ Features

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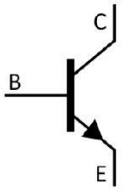
Low saturation voltage,excellent h_{FE} linearity and high h_{FE}.

/ Applications

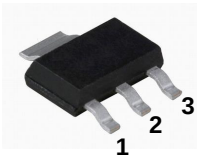
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Output stage of 3 watts audio amplifier, voltage regulator, DC-DC converter and relay driver .

/ Equivalent Circuit



/ Pinning



PIN1 χ Base PIN 2 χ Collector PIN 3 χ Emitter

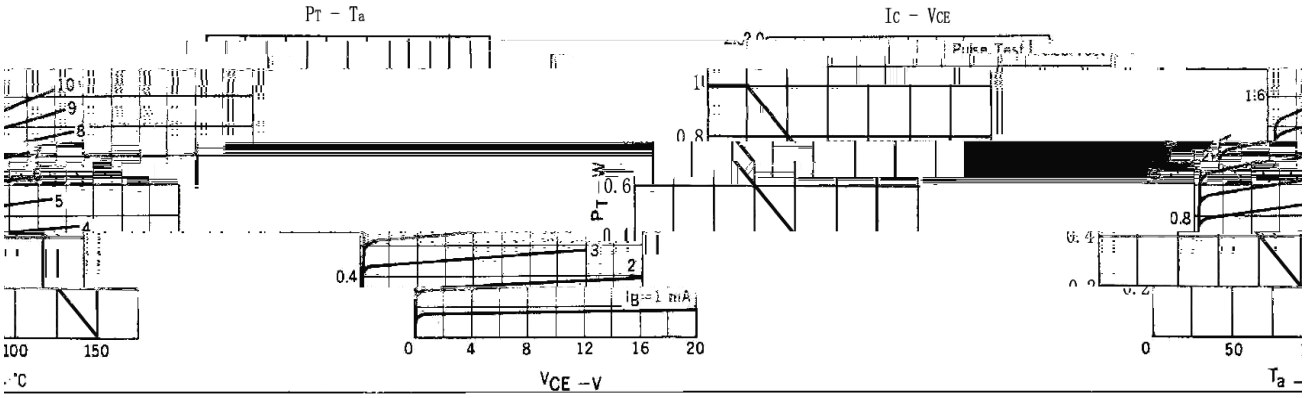
/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	R	Q	P	E
h_{FE} Range	60~120	100~200	160~320	200~400

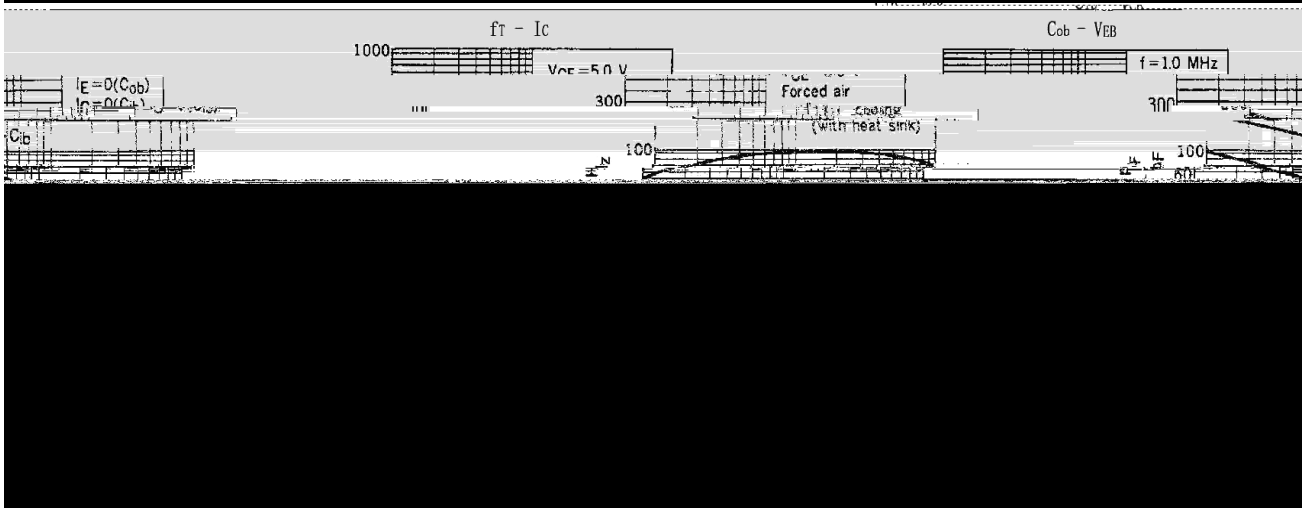
v ¨Ω Parameter	ϒ Symbol	¨Ω Ö Rating	D Ч Unit
Collector to Base Voltage	V_{CBO}	40	V
Collector to Emitter Voltage	V_{CEO}	30	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	3.0	A

...q9CÐ y˜å'%

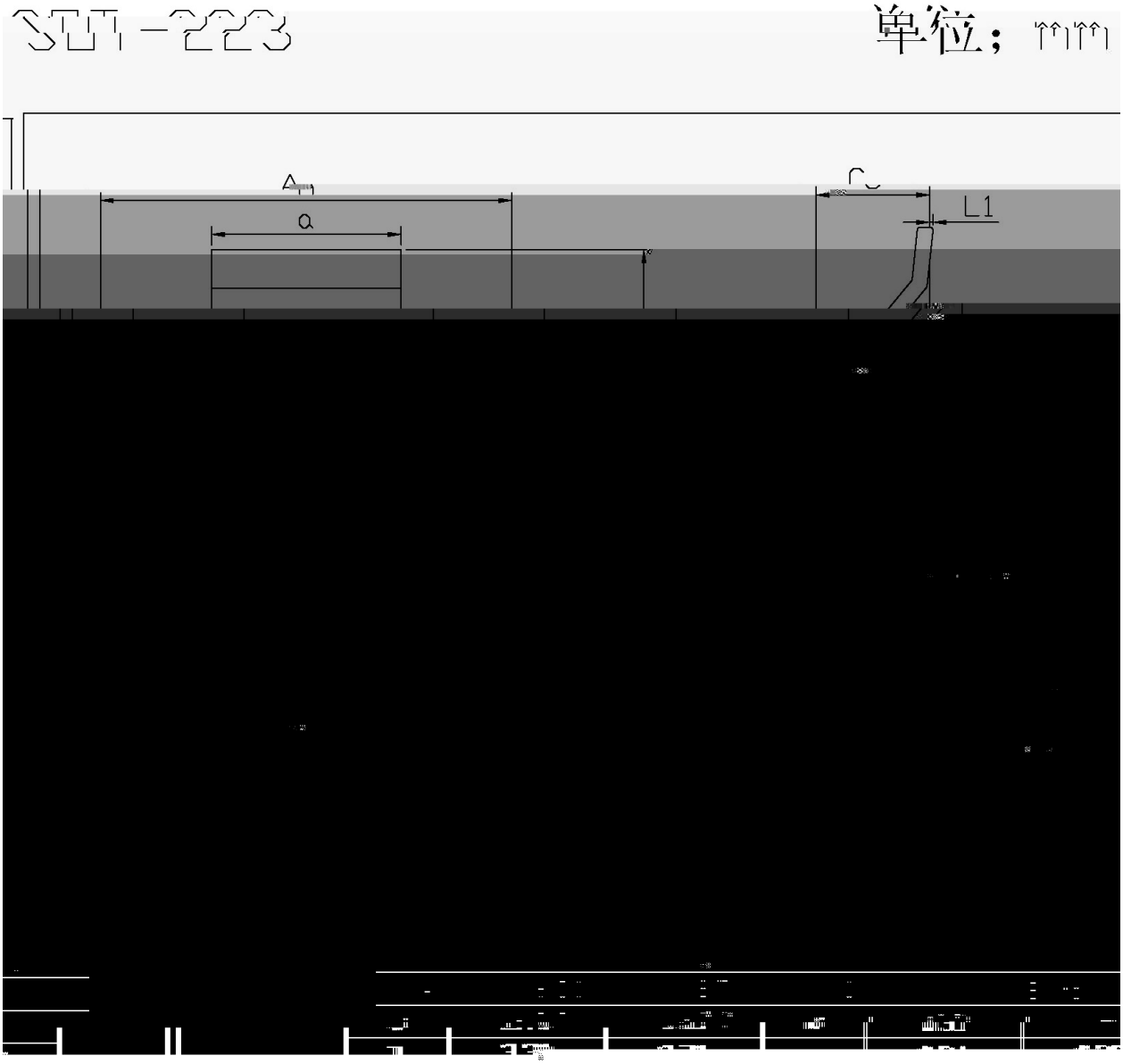
/ Electrical Characteristic Curve



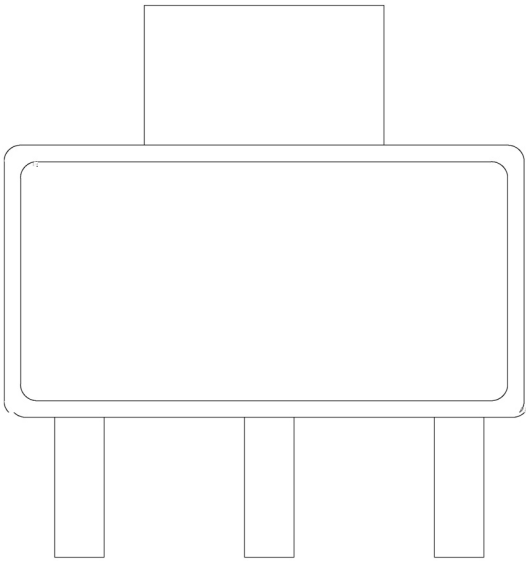




/ Package Dimensions



/ Marking Instructions



ب ˝ χ

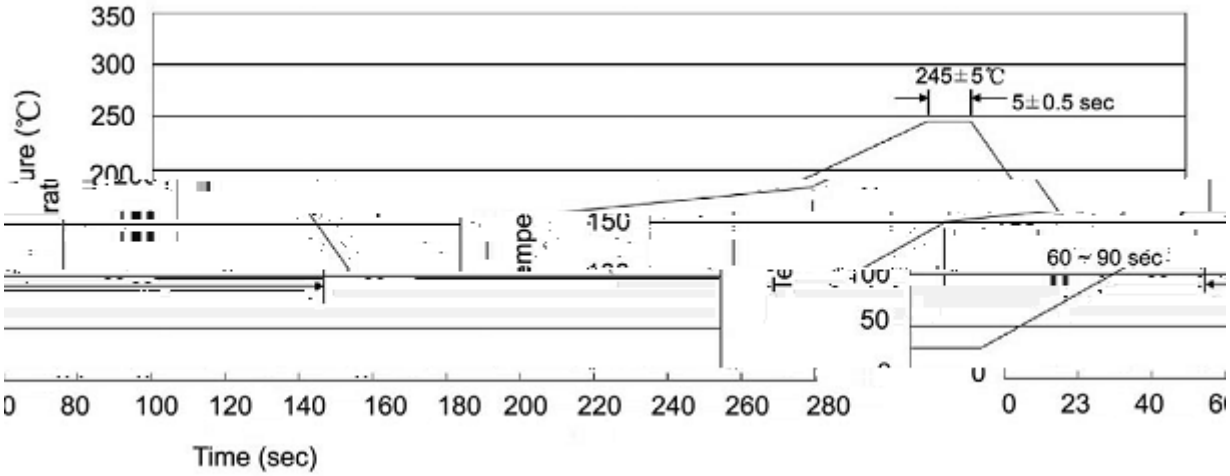
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D ; ; 2Q χ ѭ ϳ Ґϧ

S χ ѭ k_{FE} ʻ ⁶ Ґϧ

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( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



ب ˝ χ

1 Ĺ ♬ □ ỷ 25 Ḱ 150 ɬ ı `H ڑ 60 Ḱ 90sec;

2 Š Ë □ ỷ 245 ° 5 ɬ ı `H ڑ `Y ٨ ㎛ 5 ° 0.5sec;

3 ì ˙ ٧ ˛ ↄ ֍ ỷ ㎛ 2 Ḱ 10 ɬ /sec.

Note:

1.Preheating:25~150 ɬ , Time:60~90sec.

2.Peak Temp.:245 ° 5 ɬ , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ɬ /sec.

/ Resistance to Soldering Heat Test Conditions

□ ỷ χ 260 ° 5 ɬ	`H ڑ χ 10 ° 1 sec.	Temp:260±5	Time:10±1 sec