2SA970

Rev.E Mar.-2016

蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

/ Descriptions

WR0<5 ṂṂ Ŀ SQS ӔṀ ɥ s Ⅱ ᄀ Silicon PNP transistor in a TO-92 Plastic Package.

/ Features

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Low noise, high DC current gain, high breakdown voltage.

/ Applications

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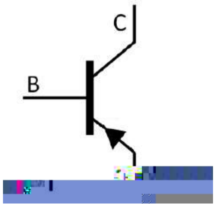
Low noise audio amplifier applications.

/ Equivalent Circuit



/ Pinning

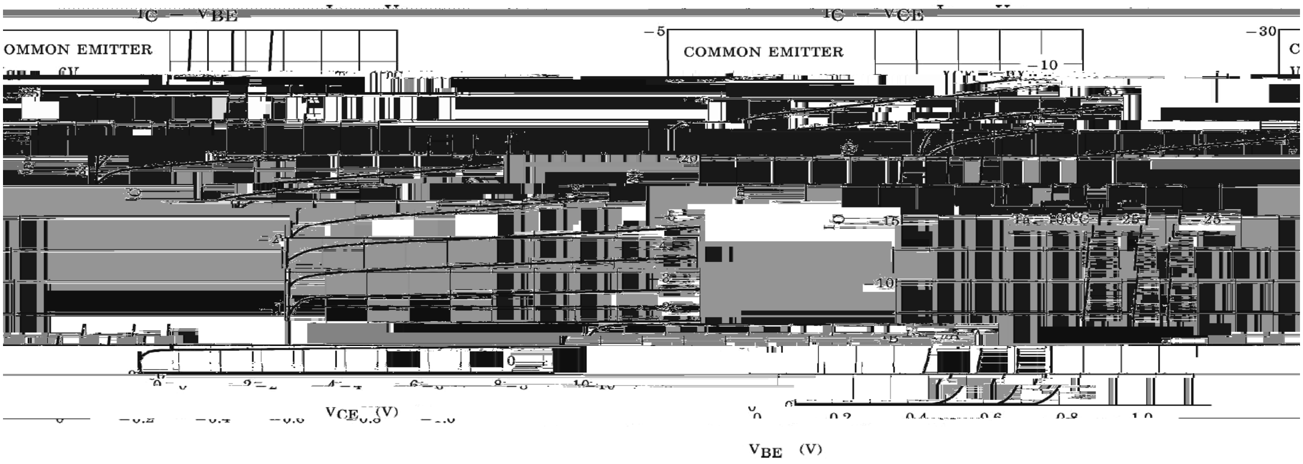
PIN1 χ Base PIN 2 χ Collector PIN 3 χ Emitter

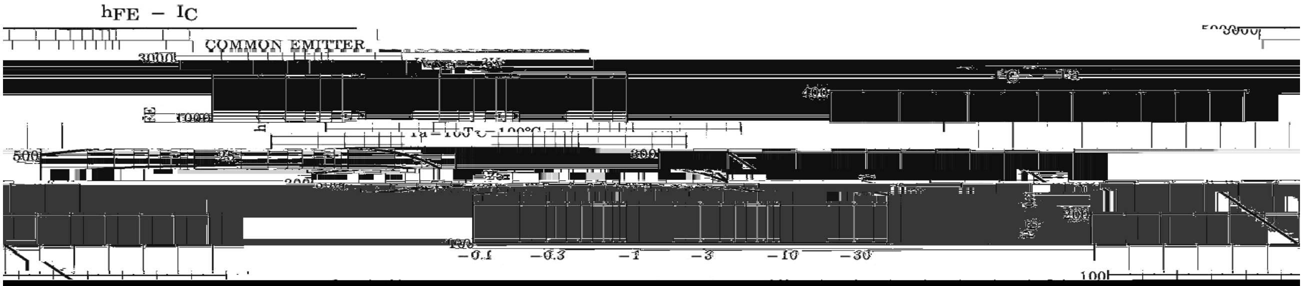
/ hFE Classifications & Marking

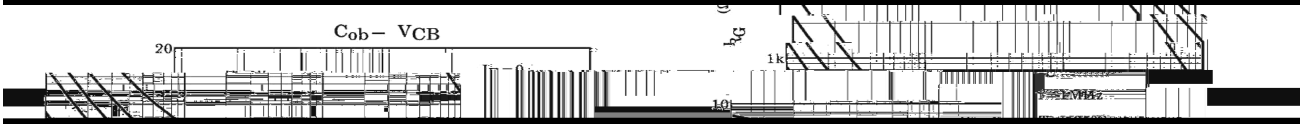
h_{FE} Classifications Symbol	GR	BL
h_{FE} Range	200~400	350~700

v ῼ Parameter	ɥ ᴺ Symbol	ῼӨ Rating	ᴅ Ɥ Unit
Collector to Base Voltage	V_{CBO}	-120	V
Collector to Emitter Voltage	V_{CEO}	-120	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-100	mA
Emitter Current – Continuous	I_E	100	mA
Collector Power Dissipation	P_C	300	mW
Junction Temperature	T_j	152 591iw560.J/TT7 161 Tf28 TD0107	

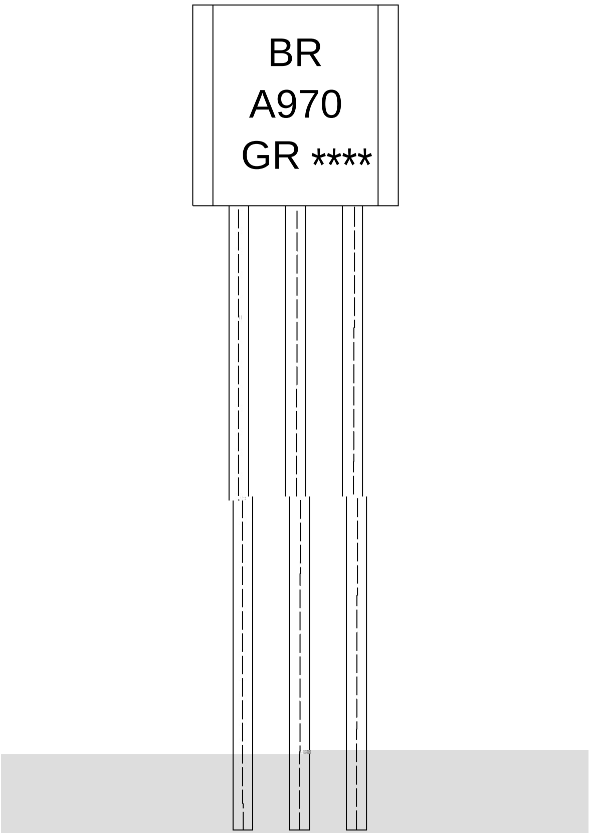
/ Electrical Characteristic Curve







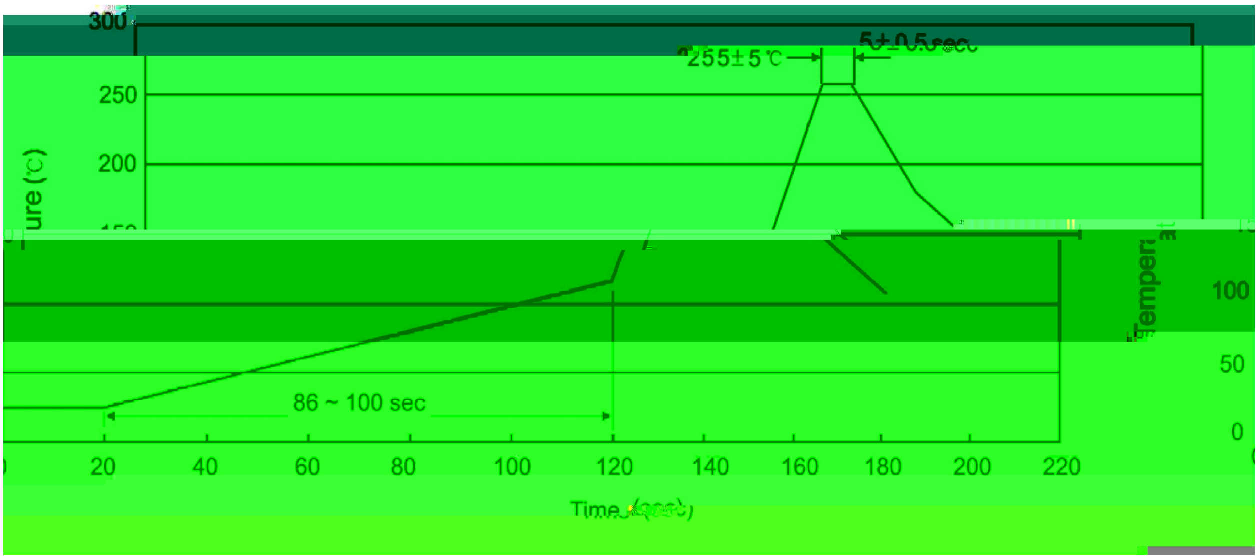
/ Marking Instructions



ب ˝ χ

EU꞊	ႷѪ ʒ ᴻ Πƀ
D< : 3 χ	ႷѪ ʓ ᴺ Πƀ
JU꞊	ႷѪ h_{FE} ˂ ⁶ Πƀ
---- χ	ႷѪ ˧ ғ ή ᴺ Πƀ ι ҿ ˧ ғ ή ᴺ ψ ק
Note:	
BR:	Company Code.
A970:	Product Type Code.
GR:	h_{FE} Classifications Symbol
****:	Lot No. Code,code change with Lot No.

( ) / Temperature Profile for Dip Soldering(Pb-Free)



ب ˝ χ

1 ˆ ♬ □ ẙ 25 Ḱ 150 ƚ ı ̀H ڗ 60 Ḱ 90sec;

2 Ś Ӫ □ ẙ 255 ° 5 ƚ ı ̀H ڗ ̔Y ᛆ ꙗ 5 ° 0.5sec;

3 ì ˙ ˥ ˛ ɔ ه ẙ ꙗ 2 Ḱ 10 ƚ /sec.

Note:

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

2.Peak Temp.:255 ° 5 ƚ , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ƚ /sec.

/ Resistance to Soldering Heat Test Conditions

□ ẙ χ 270 ° 5 ƚ ̀H ڗ χ 10 ° 1 sec. Temp:270±5 Time:10±1 sec

/ Packaging SPEC.

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Package Type	Units					Dimension (unit mm3)		
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
TO-92	1,000	10	10,000	5	50,000	135×190	237×172×102	560×245×195
	1,000	10	10,000	10	100,000	135×190	237×172×102	560×245×375

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