2SA970
Rev.E Mar.-2016

DATA SHEET

/ Descriptions

WR0<5 ṂṂȽ SQS ᴁṀ ɥ s ǁ ᒉ 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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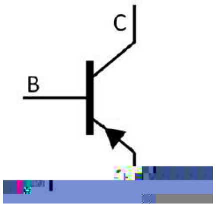
Low noise audio amplifier applications.

/ Equivalent Circuit



/ Pinning

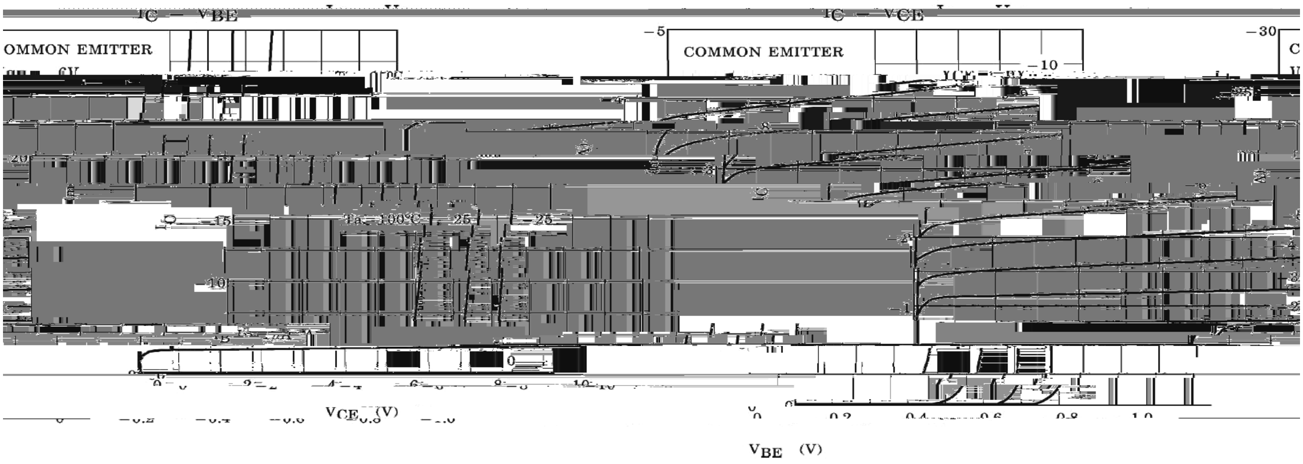
PIN1 χ Base PIN 2 χ Collector PIN 3 χ Emitter

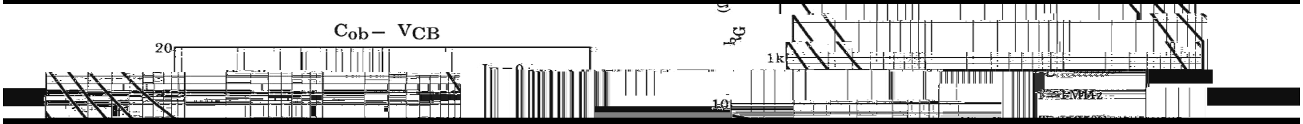
/ hFE Classifications & Marking

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

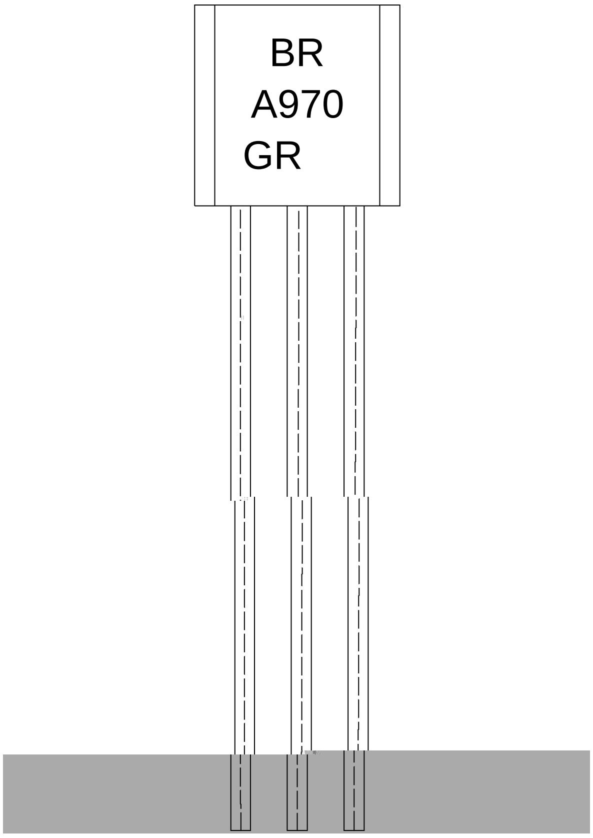
v ῼ̣ Parameter	ɏ ᴺ Symbol	ῼ̣Ӫ Rating	ᴅ Ʉ Unit
Collector to Base Voltage	V_{CBO}	-120	V
Collector to Emitter Voltage	V_{CEO}	-120	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-100	mA
Emitter Current – Continuous	I_E	100	mA
Collector Power Dissipation	P_C	300	mW
Junction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

/ Electrical Characteristic Curve





/ Marking Instructions



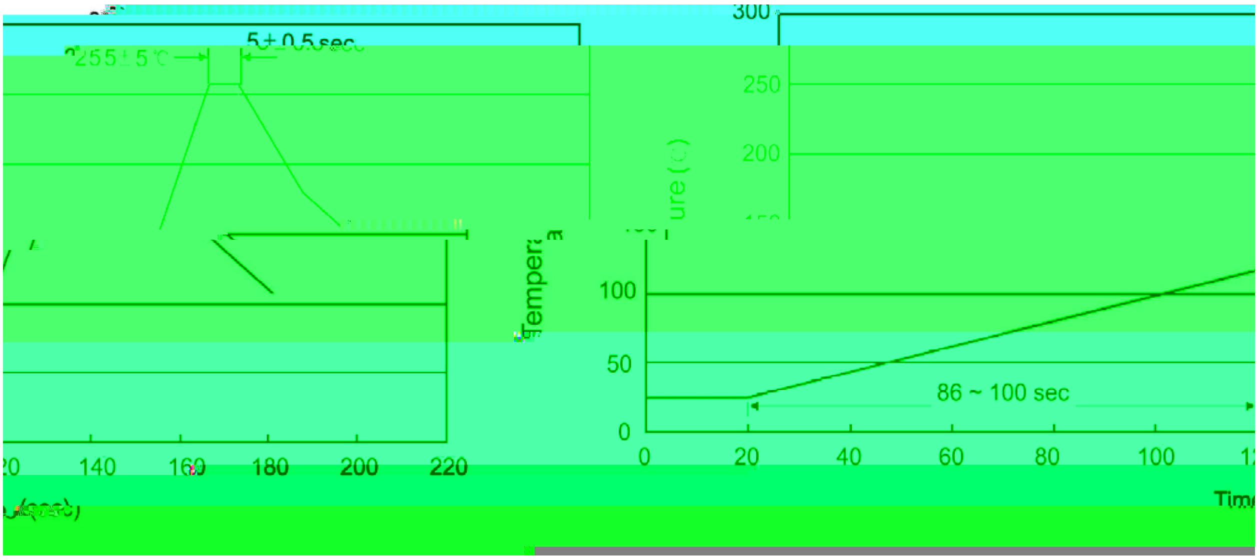
ب ˝ χ

EU꞉	ҥѫ ҙ ᴻ Ꮒ
D<:3 χ	ҥѫ ᶾ ^{N} Ꮒ
JU꞉	ҥѫ h_{FE} ˂ ^{6} Ꮒ
---- χ	ҥѫ ꞁ ғ ῇ ^{N} Ꮒ ꞁ ǥ ꞁ ғ ῇ ^{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 ỉ ♬ □ ŷ 25 Ḱ 150 ł ı ˋH ڗ 60 Ḱ 90sec;
2 Ś � □ ŷ 255 ° 5 ł ı ˋH ڗ ˋY ﾊ ᵯ 5 ° 0.5sec;
3 ì ˙ Ꮦ ˛ ɔ ॐ ŷ ᵯ 2 Ḱ 10 ł /sec.

Note:
1.Preheating:25~150 ł , Time:60~90sec.
2.Peak Temp.:255 ° 5 ł , Duration:5 ° 0.5sec.
3. Cooling Speed: 2~10 ł /sec.

/ Resistance to Soldering Heat Test Conditions

□ ŷ χ 270 ° 5 ł   ˋH ڗ χ 10 ° 1 sec.   Temp:270±5   Time:10±1 sec

/ Packaging SPEC.

˜Ω ʈ ɣ Ⱡ / BULK

Package Type	Units					Dimension		(unit mm3)

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