BR2SC2712Q

Rev.A Oct.-2023

DATA SHEET

῍Yث / Descriptions

VRW056 ṂṂȽ QSQ ᴂṀɥ s ǁ ᒣ Silicon NPN transistor in a SOT-23 Plastic Package.

◕ Ȅ / Features

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High voltage, high current, high hFE, low noise, excellent hFE linearity, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

٧ ي / Applications

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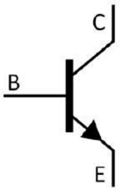
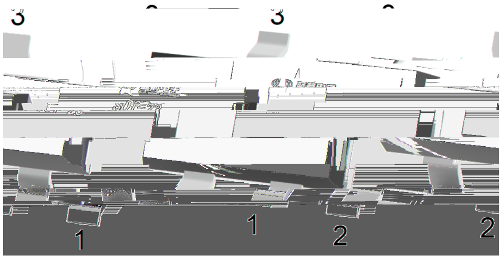
Audio frequency general purpose amplifier applications, Meet the stringent requirements of automotive applications.

ꓛ ڦ ᾋ ẓ ع / Equivalent Circuit



ẫ ɂ ὔ / Pinning



PIN1 χ Base PIN 2 χ Emitter PIN 3 χ Collector

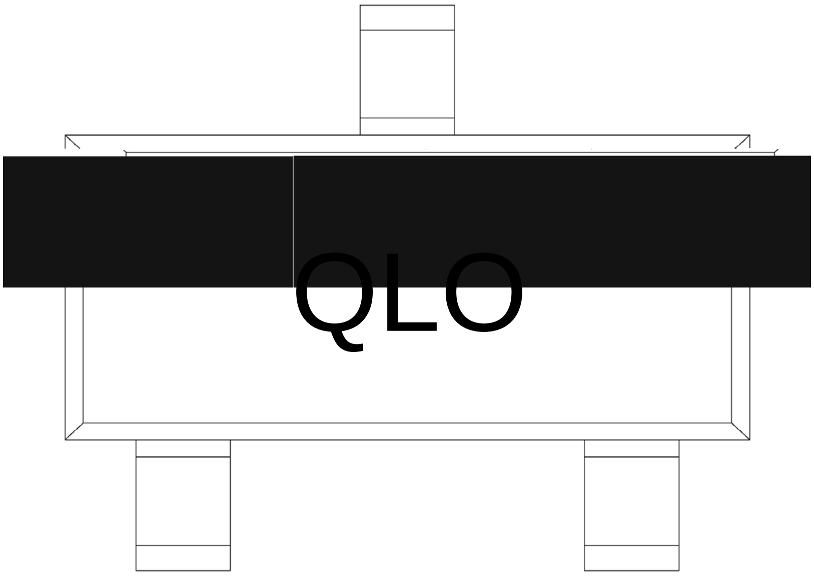
ᾋ ᶻ z ȴ ʜ ב / h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	O	Y	GR	BL
h_{FE} Range	70 140	120 240	200 400	350 700
Marking	QLO	QLY	QLG	QLL

v ῝Ω Parameter	ɬ ᴺ Symbol	῝ΩӨ Rating	D Ḩ Unit
Collector to Base Voltage	V_{CBO}	60	V
Collector to Emitter Voltage	V_{CEO}	50	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current	I_C	150	mA
Base Current	I_B	30	mA
Collector Power Dissipation	P_C	150	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

v ῝Ω Parameter	ɬ ᴺ Symbol	╜ ᵎ↑ ȶ Test Conditions	ѡ ŋ Ө Min	Ɛ ʒ Ө Typ	ѡ ᶻ Ө Max	D Ḩ Unit
Collector Cut-Off Current	I_{CBO}	V_{CB}=60V I_E=0			0.1	μA
Emitter Base Cut-Off Current	I_{EBO}	V_{EB}=5.0V I_C=0			0.1	μA
DC Current Gain	h_{FE}	V_{CE}=6.0V I_c=2.0mA	70		700	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=100mA I_B=10mA		0.1	0.25	V

ł. ʟ̈Ω / Marking Instructions



ب ˝ χ

T χ　　ㄊ ∩ ج ἧ　ғ ᵝ ‰ ℣

0 χ　　ㄊ ʒ ᴺ ℿ

R χ　　ㄊ hFE ⁶ ҟ ℿ

Note:

T=	Dxwr p reloh kdor jhq0iuhh surgxfw Frgh
0 χ	Product Type Code
R χ	hFE Classifications Symbol

ꝭ ʃ ╗ ẘ΄E ⱽ ƒ (ῷ ڗ) / Wh p shudwxuh Sur iloh iru LU Uhior z Vroghulq j+Se0 Iuhh,

ب ˝ χ Note:

1 ỉ ♬ □ ỷ 150 Ḱ 200 ƚ ı `H ڗ 60 Ḱ 120sec; 1.Preheating:150~200 ƚ , Time:60~120sec.

2 Š Ӫ □ ỷ 255 ° 5 ƚ ı `H ڗ `Y ⲙ ㅉ 5 ° 0.5sec; 2.Peak Temp.:255 ° 5 ƚ , Duration:5 ° 0.5sec.

3 ì ˙ ˥ ˛ ɔ ඣ ỷ ㅉ 2 Ḱ 10 ƚ /sec. 3.Cooling Speed: 2~10 ƚ /sec.

ɺ ǜ ɋ ˭ `Y Ţ / Resistance to Soldering Heat Test Conditions

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

ɘ Ŀ ⋜ — / Packaging SPEC.

ɷ ˋ ɣ Ŀ / REEL

Package Type	Units				Dimension (unit mm^3)
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	