"Yॐ / Descriptions

VRW056 ṂṂ Ḫ QSQ ÆṀ ч s ‖ ㄱ Silicon NPN transistor in a SOT-23 Plastic Package.

◕ È / Features

ↄ я ı ↄ ╚ ı ѽ ᶻ ᵪ ı ƍ ϕ Ӈ ı ѽ ᶻ ɻ ό Ḅ ı ㄴ ᵀ DHF0T434 ‰´ ᵪ ˡ ˎ ό ⌊ ∂ ı ὴ ꜰ β

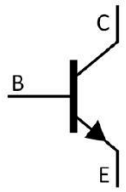
High voltage, high current, high h_{FE}, low noise, excellent h_{FE} linearity, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

ᵛ ᵮ / Applications

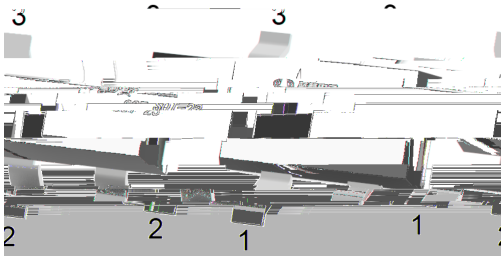
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Audio frequency general purpose amplifier applications, Meet the stringent requirements of automotive applications.

Лᵭ ᵯ ≠ ɐ / Equivalent Circuit



ẵ ɻ ὺ / Pinning



PIN1 χ Base PIN 2 χ Emitter PIN 3 χ Collector

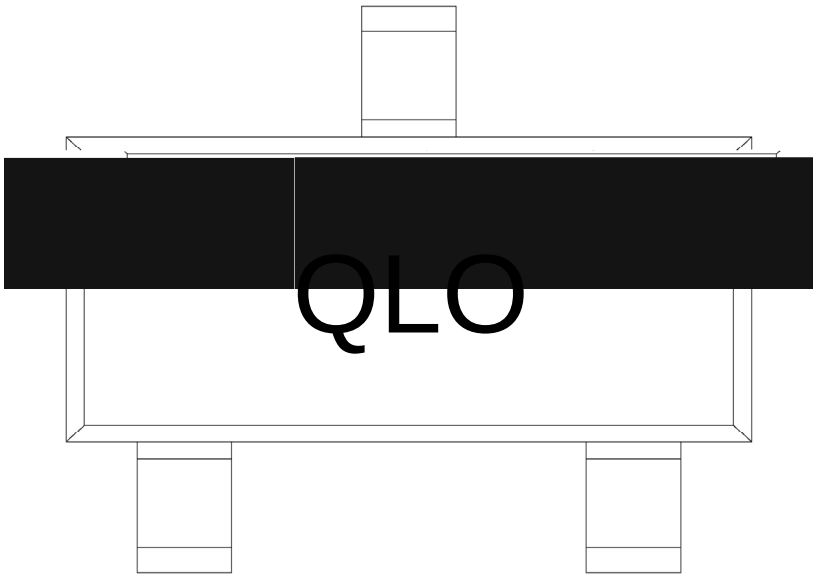
ᵯ ᶎ z ł ʜ ᾱ / h_{FE} Classifications & Marking

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	ϒ N Symbol	̈Ω Ö Rating	D Ч 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	ϒ N Symbol	Ш :ϳ Ţ Test Conditions	ѡ ņ Ö Min	Ɛ ʒ Ö Typ	ѡ ᶻ Ö Max	D Ч 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. Ļ"Ω / Marking Instructions



ب ˝ χ

T χ ⊮ ∩ ج ή ƒ β ‰ ٧̈

0 χ ⊮ ʒ ᴺ Ր

R χ ⊮ h_{FE} ⁶ ₭ Ր

Note:

T: Dxwr p rel0h kd0r jhq0iuhh surgxfw Frgh

0 χ Product Type Code

R χ h_{FE} Classifications Symbol

ѭ ʃ ╕ ẘ ´E ⱳ ʄ (ᾠ ᴈ) / Wh p shudwxuh Suril oh i ru LU Uhi o r z Vr oghulq j +Se0 luhh,

ᴗ ¨ χ

1 Ĺ ♬ □ ẙ 150 Ḱ 200 ɬ ı `H ᴊ 60 Ḱ 120sec;

2 Š Ë □ ẙ 255 ° 5 ɬ ı `H ᴊ `Y ㅅ ㎛ 5 ° 0.5sec;

3 ì ˙ ㅅ ˛ ɔ ๛ ẙ ㎛ 2 Ḱ 10 ɬ /sec.

Note:

1.Preheating:150~200 ɬ , Time:60~120sec.

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

3.Cooling Speed: 2~10 ɬ /sec.

ㅅ ü ɋ ¯ `Y Ţ / Resistance to Soldering Heat Test Conditions

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

ᵑ Ŀ ᾀ — / Packaging SPEC.

ᴐ ` ㅓ Ŀ / REEL

Package Type	Units				Dimension (unit mm³)
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	