/ Descriptions

VRW056 ṂṂ Ŀ SQS ÆṀ ч s ‖ ㄱ Silicon PNP transistor in a SOT-23 Plastic Package.

/ Features

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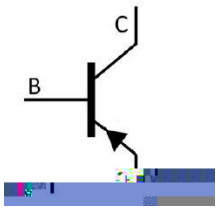
Collector currents to 600mA. Kalogen free product, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

/ Applications

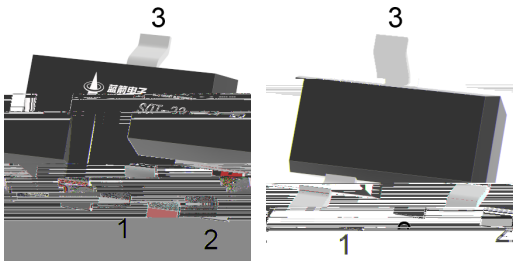
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General purpose amplifier, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit



/ Pinning



PIN 1 χ Base PIN 2 χ Emitter PIN 3 χ Collector

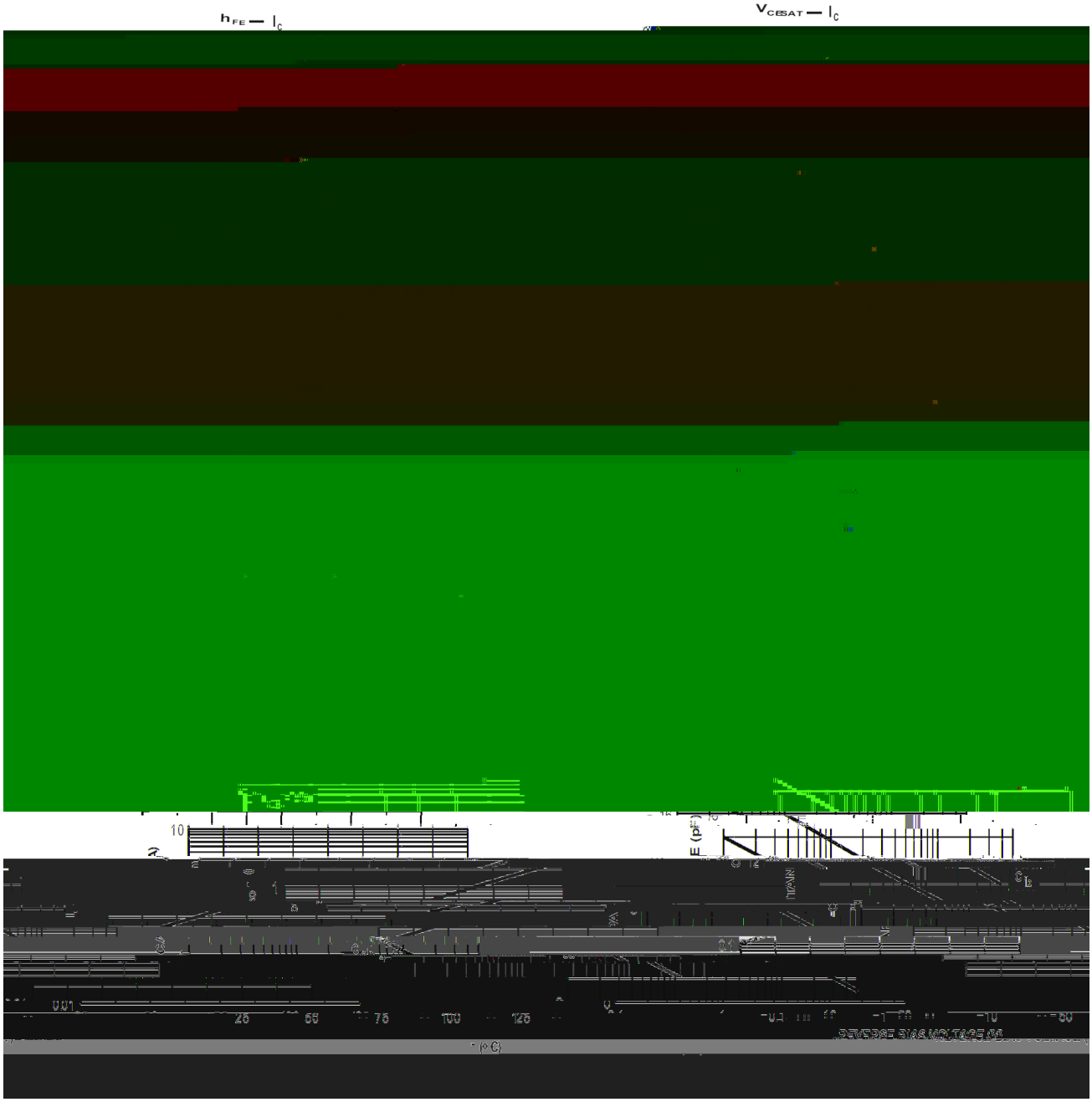
/ h_{FE} Classifications & Marking

h_{FE} Range	100 300
Marking	Q2F

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}	-60	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current	I_C	-600	mA
Collector Power Dissipation	P_C	350	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

v ̈Ω Parameter	ϒ N Symbol	Ш :ϯ ţ Test Conditions	ώ ņ Ö Min	Ε ʒ Ö Typ	ώ ᶻ Ö Max	D Ч Unit
Collector to Base Breakdown Voltage	V_{CBO}	I_C=-10 A I_E=0	-60			V
Collector to Emitter Breakdown Voltage	V_{CEO}	I_C=-10mA I_B=0	-60			V
Emitter to Base Breakdown Voltage	V_{EBO}	I_E=-10 A I_C=0	-5.0			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=-50V I_E=0			-0.01	A
DC Current Gain	$h_{FE(1)}$	V_{CE}=-10V I_C=-150mA*	100		300	
	$h_{FE(2)}$	V_{CE}=-10V I_C=-500mA*	50			
	$h_{FE(3)}$	V_{CE}=-10V I_C=-10mA	100			
	$h_{FE(4)}$	V_{CE}=-10V I_C=-1.0mA	100			
	$h_{FE(5)}$	V_{CE}=-10V I_C=-0.1mA	75		79D0	Tc(8 276.260

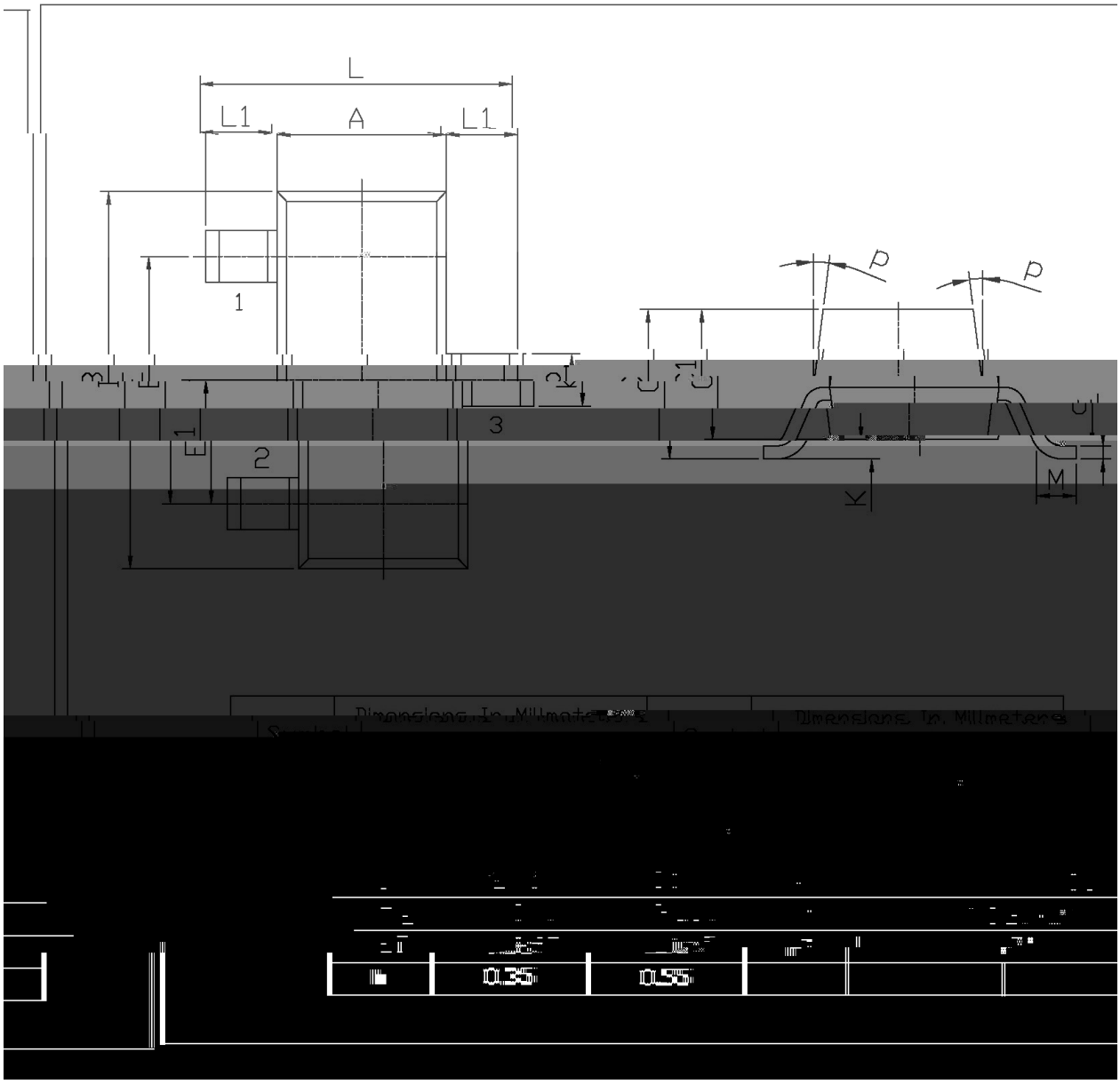
/ Electrical Characteristic Curve



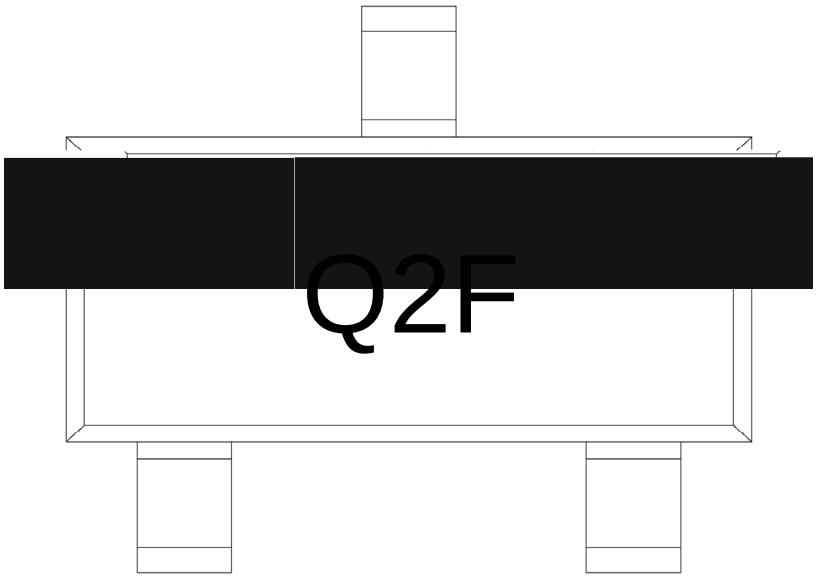
/ Package Dimensions

SOT-23

单位：mm



/ Marking Instructions



ب ˝ χ

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2F χ ѭ ȝ ᴺ Ґ

Note:

Q: Automobile halogen-free product Code

2F χ Product Type Code

( ) / Wh p shrdwxrh Prr iio h i r r IU Uhio r w Vro ghriq j+Pe-Frhh,

ب ˝ χ

1 Ĺ ♬ □ ẙ 150 Ḱ 200 ł ı `H ڑ 60 Ḱ 120sec;

2 Š Ө □ ẙ 255 ° 5 ł ı `H ڑ 'Y ∧ ₶ 5 ° 0.5sec;

3 ì ˙ ٧ ¸ ɔ ๛ ẙ ₶ 2 Ḱ 10 ł /sec.

Note:

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

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

3.Cooling Speed: 2~10 ł /sec.

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

ი ` ץ Ł / REEL