

/ Descriptions

VRW056 M M QSQ "Q È s ll 1 VloIf r q QSQ Gl j lwd o wudqvlw ru lq d VRW056 S0dvwl f Sdfnd j h1

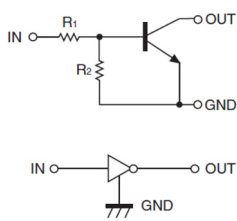
/ Features

η ß J ɔ i v p i i ° N F T = ' L Y i y T DHF0T434 % ' I ó ɔ i ñ f β
With built-in bias resistors, simplify circuit design, reduce a quantity of parts and manufacturing process, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

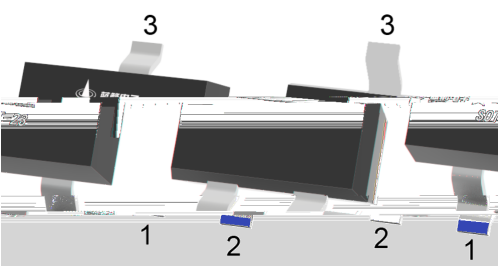
/ Applications

ℱ ∞ Æ H η ɔ Q 3 U ɔ A i ɔ n Z i 0B J 1C f ɔ
Switching applications, interface circuit and driver circuit applications, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit



/ Pinning



PIN 1 X IN PIN 2 X GND PIN 3 X OUT

/ hFE Classifications & Marking

Marking	Q62
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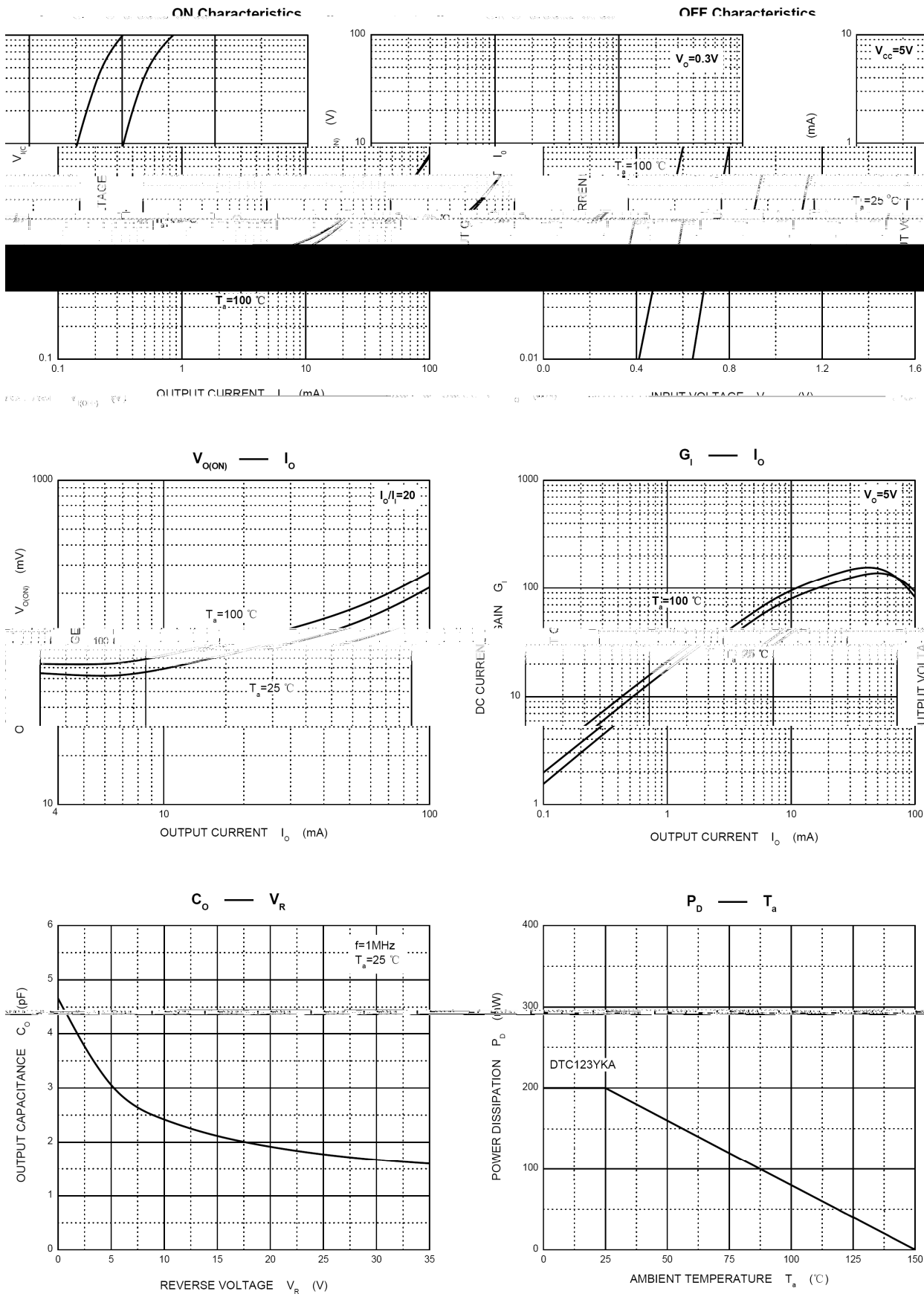
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Supply Voltage	V _{CC}	50	V
Input Voltage	V _{IN}	12	V
		-5	V
Output Current	I _O	100	mA
Power Dissipation	P _D	200	mW
Junction Temperature	T _j	-55~150	
Storage Temperature Range	T _{stg}	-55~150	

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Input Voltage	V _{I(off)}	V _{CC} =5.0V I _O =100 A	0.3			V
Input Voltage	V _{I(on)}	V _O =0.3V I _O =20mA			3	V
Output Voltage	V _{O(on)}	I _O =10mA I _I =0.5mA		0.1	0.3	V
Input Current	I _I	V _I =5.0V			3.8	mA
Output Cut-off Current	I _{O(off)}	V _{CC} =50V V _I =0V			0.5	A
DC Current Gain	G _I	V _O =5.0V I _O =10mA	33			
Resistance1	R ₁		1.54	2.2	2.86	K
Resistance Ratio	R ₂ /R ₁		3.6	4.5	5.5	
Transition Frequency	f _T	V _O =10V I _O =5.0mA f=100MHz		250		MHz

/ Electrical Characteristic Curve



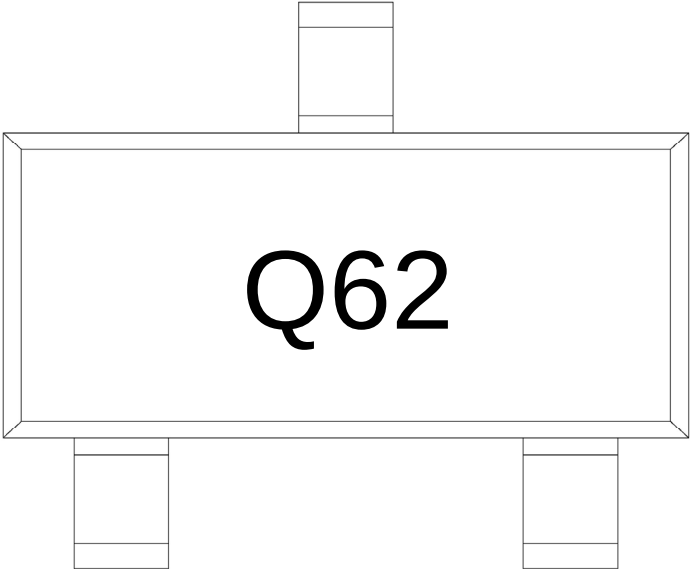
/ Package Dimensions

SOT-23

单位: mm

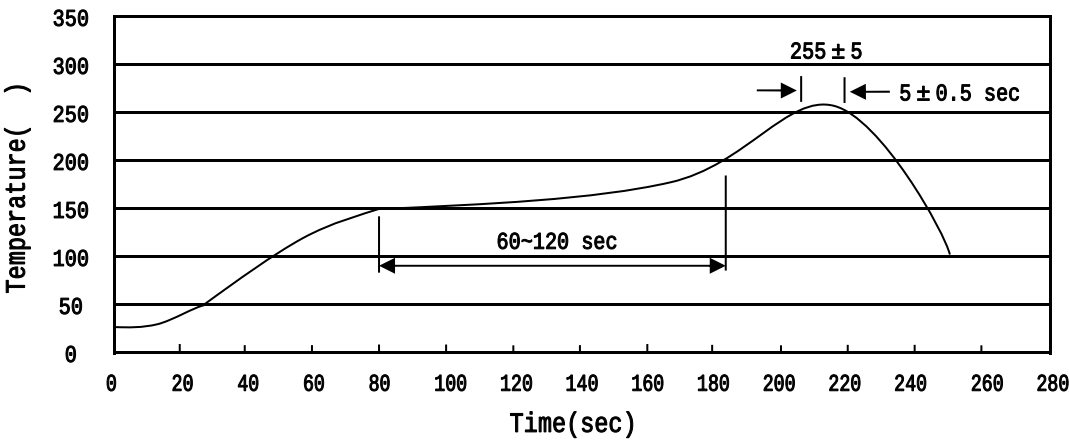


/ Marking Instructions



- ” X
- Q X 𐄂 𐄃 𐄄 𐄅 𐄆 %
- 62 X 𐄇 𐄈 𐄉 𐄊
- Note:
- Q: Automobile halogen-free product Code
- 62 X Product Type Code

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



- Note:
1. Preheating: 150~200 °C , Time: 60~120sec.

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

3. Cooling Speed: 2~10 °C /sec.

/ Resistance to Soldering Heat Test Conditions

□ °C ± 260 ± 5 °C 10 ± 1 sec. Temp.: 260 ± 5 Time: 10 ± 1 sec

/ Packaging SPEC.

□ °C / REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	只 卷盘	卷盘 盒	只 盒	盒 箱	只 箱		盒	箱
SOT-23	3,000	10	30,000	6	180,000	7 × 8	180×120×180	390×385×205

/ Notices