

/ Descriptions

VRW056 QSQ Vlof r q QSQ Gl j lwd o wudqvlw ru lq d VRW056 S o d v w l f S d f n d j h l

/ Features

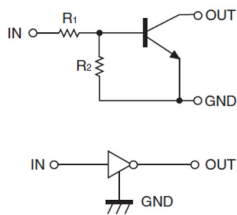
DHF0T 434

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.

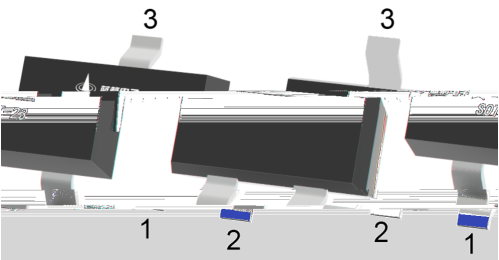
/ Applications

Switching applications, interface circuit and driver circuit applications, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit



/ Pinning



PIN 1 IN PIN 2 GND PIN 3 OUT

/ hFE Classifications & Marking

Marking	Q62
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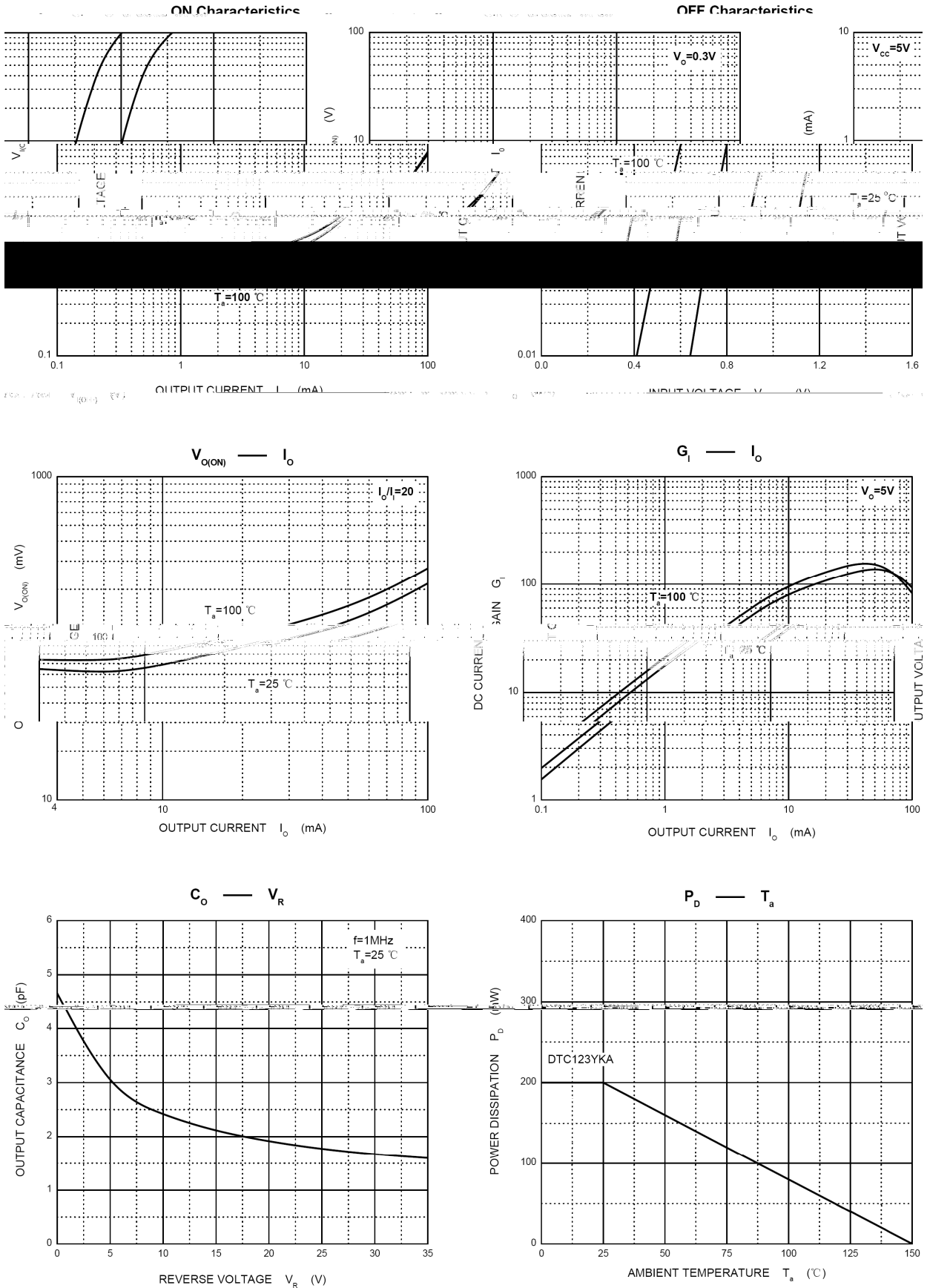
/ Absolute Maximum Ratings($T_a=25$)

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($T_a=25$)

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



Q

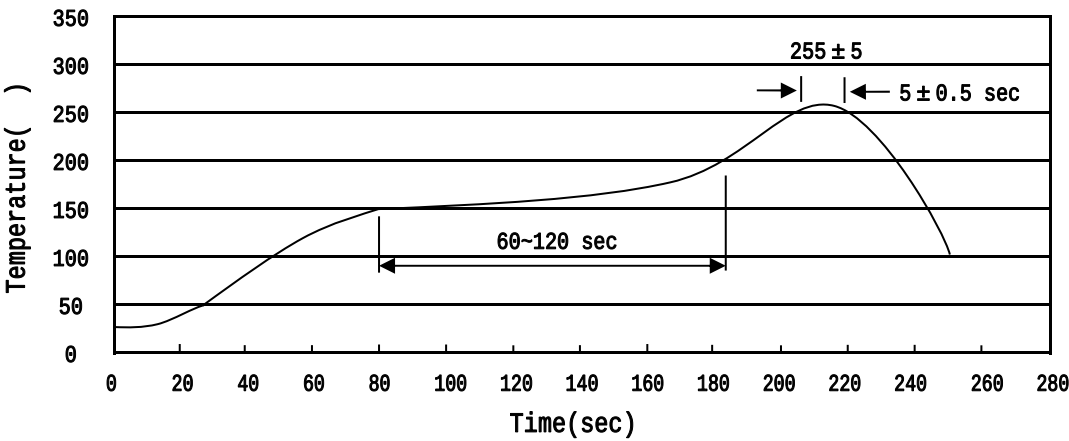
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Note:

Q: Automobile halogen-free product Code

62 Product Type Code

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



Note:

- 1

150 200%

60 120sec;

1.Preheating:150~200%, Time:60~120sec.
- 2

255 ± 5%

5 ± 0.5sec;

2.Peak Temp.:255 ± 5%, Duration:5 ± 0.5sec.
- 3

2 10%/sec.

3. Cooling Speed: 2~10%/sec.

/ Resistance to Soldering Heat Test Conditions

260 ± 5% 10 ± 1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ 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