

描述 / Descriptions

VRW056 是一款 NPN 型 SMD 封装的通用型三极管，符合 VRW056 规格书 Sdfndjh1

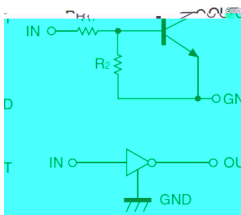
特点 / Features

内置偏置电阻，简化电路设计，减少零件数量和制造过程，符合 AEC-Q101 标准，高可靠性，HF 产品。

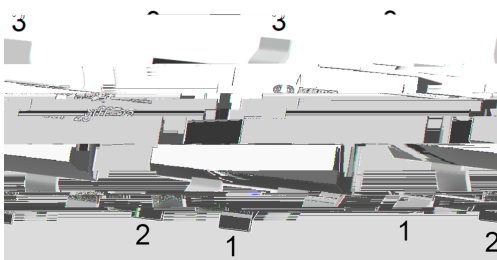
应用 / Applications

开关应用，接口电路和驱动电路应用，满足汽车应用的严格要求。

等效电路 / Equivalent Circuit



封装 / Pinning



PIN 1 为 IN

PIN 2 为 GND

PIN 3 为 OUT

产品分类及标记 / h_{FE} Classifications & Marking

Marking	Q62
---------	-----

绝对最大值 / Absolute Maximum Ratings(Ta=25℃)

参数 Parameter	符号 Symbol	额定值 Rating	单位 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	

电 气 特 性 / Electrical Characteristics(Ta=25℃)

参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
Input Voltage	V _{I(off)}	V _{CC} =5.0V I _O =100μA	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	μA
DC Current Gain	G _I	V _O =5.0V I _O =10mA	33			
Resistance1	R ₁		1.54	2.2	2.86	KΩ
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

BRDTC123YKAQ

Rev.A Mar.-2025



蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

电气特性 / Electrical Characteristic Curve

Ø □ =) ¢ / Package Dimensions

, M y f / Marking Instructions

Q62

^a ¢ y

Q y V ñ —)í D } ö æ

62 y ° Z W A

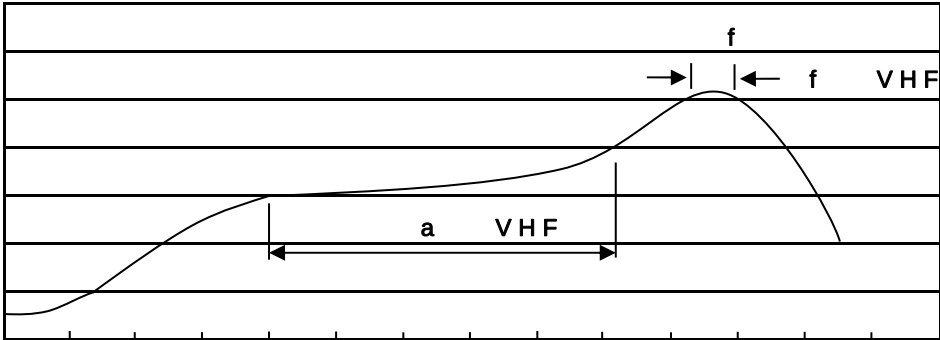
Note:

Q: Automobile halogen-free product Code

62 y Product Type Code

šWD t...•Žč (x/) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

7HPSHUDWXUH



7LPH VHF

ačy

Note:

- 10•Ä½“† 150½200 - kž• 60½120sec;
- 20•Q>“† 255 r5 - kž•4 Ò 5 r0.5sec;
- 30•D Nò i Ò 0 ,† 2½10 - /sec.
- 1.Preheating:150~200 - , Time:60~120sec.
- 2.Peak Temp.:255 r5 - , Duration:5 r0.5sec.
3. Cooling Speed: 2~10 - /sec.

ÂD /Că p ¯ »] / Resistance to Soldering Heat Test Conditions

“†y 260 r5 - ž•y 10 r1 sec. Temp.:260±5 Time:10±1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type 7>û ~ E	Units ;>û H					Dimension ;>û p . (unit Åmm³)		
	Units/Reel /-	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box	Outer Boxç
SOT-23	3,000	10	30,000	6	180,000	7 T×8	180×120×180	390×385×205

„Đ y f / Notices