

/ Descriptions

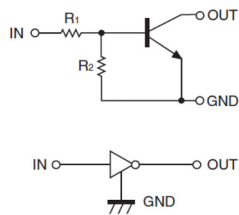
/ Features

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.

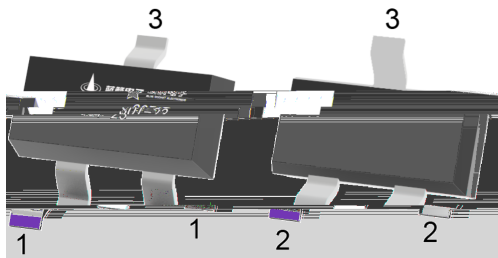
/ Applications

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
---------	-----

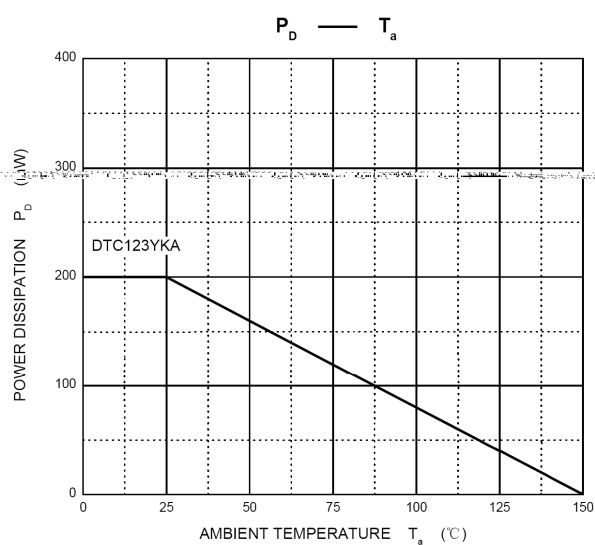
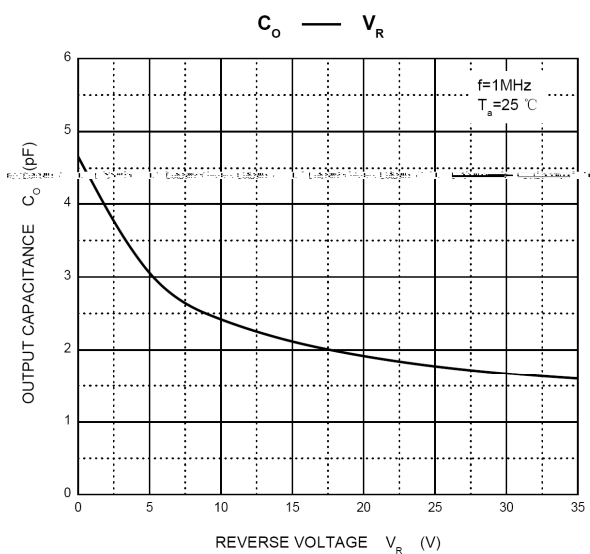
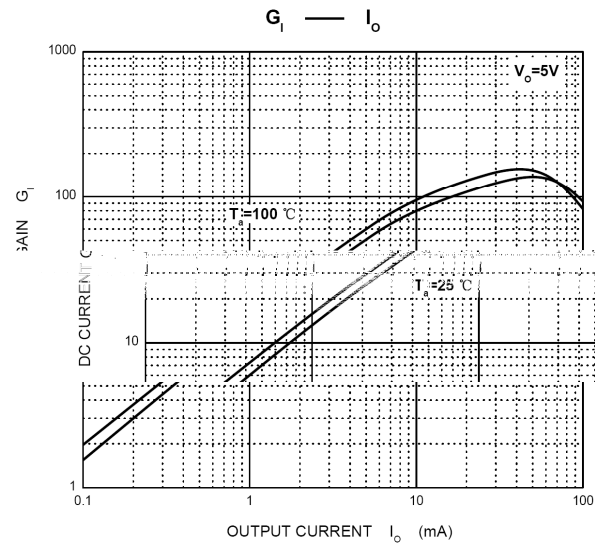
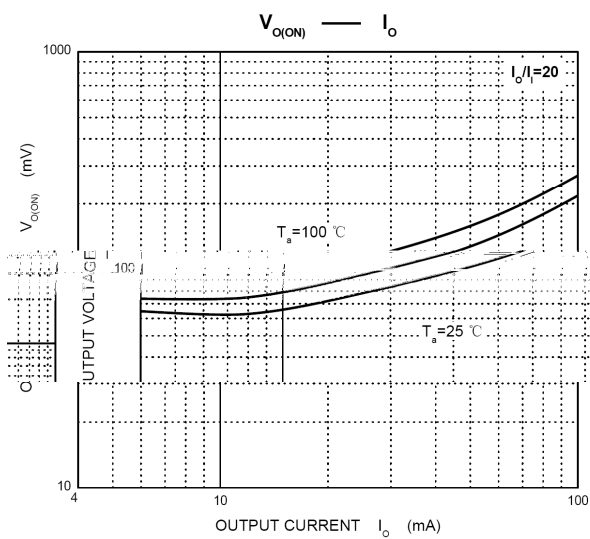
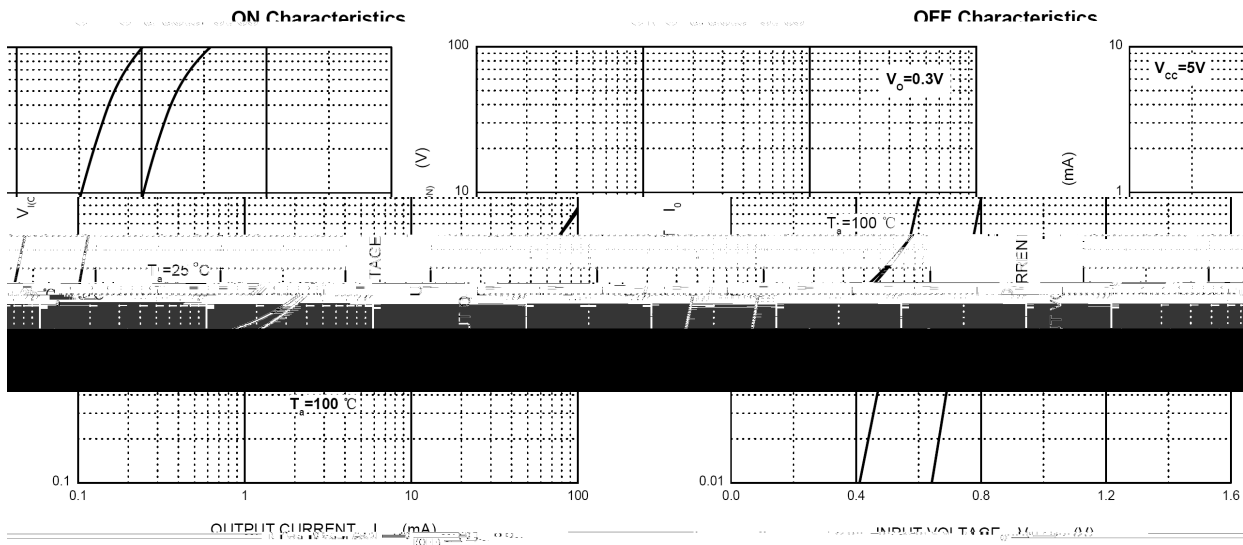
/ Absolute Maximum Ratings($T_a=25$)

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	$V_{I(off)}$	$V_{CC}=5.0V$ $I_o=100\mu A$	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	μA
DC Current Gain	G_i	$V_o=5.0V$ $I_o=10mA$	33			
Resistance1	R_1		1.54	2.2	2.86	K Ω
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

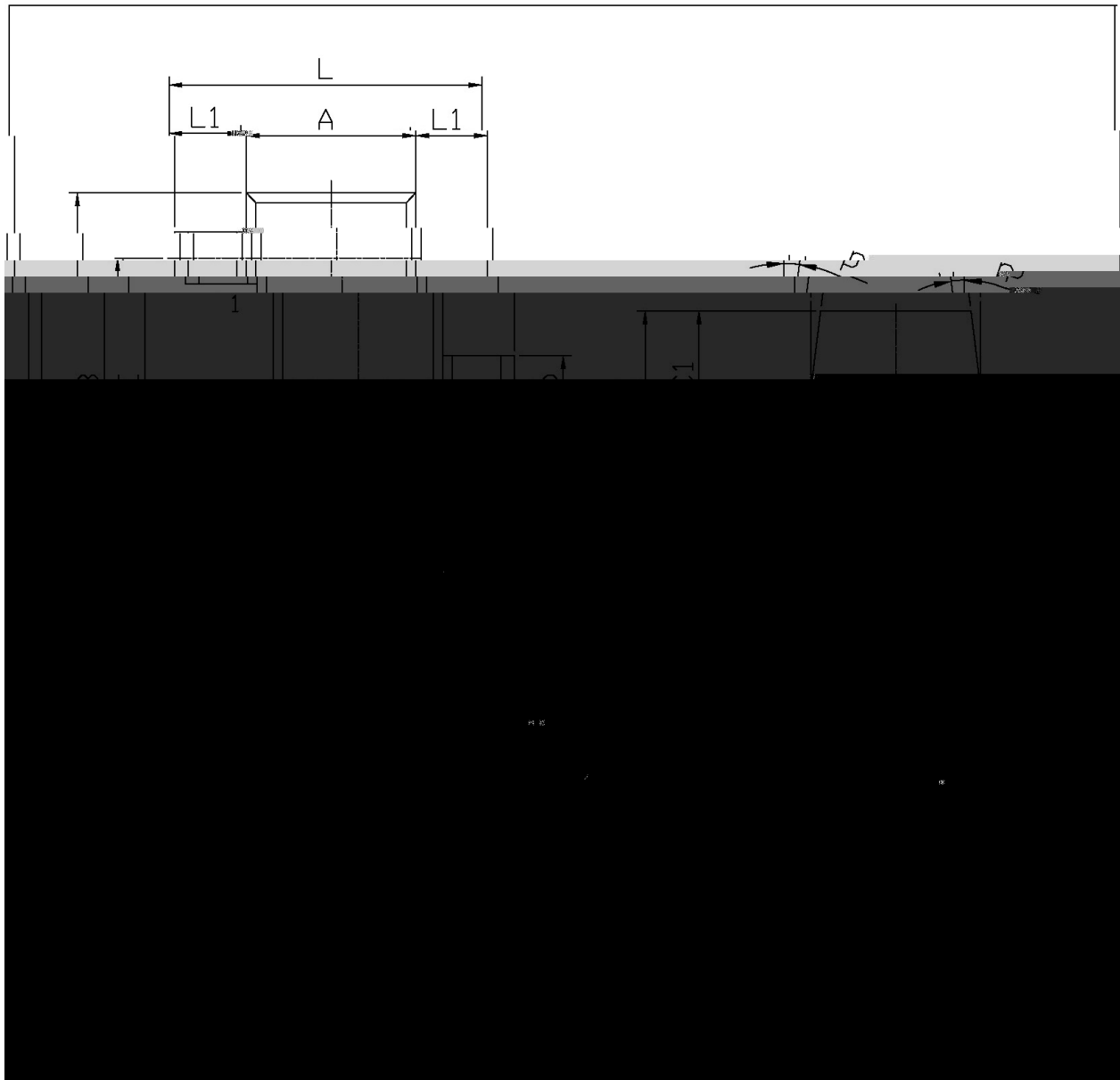
/ Electrical Characteristic Curve



/ Package Dimensions

SOT-23

单位: mm





/ Marking Instructions



Q

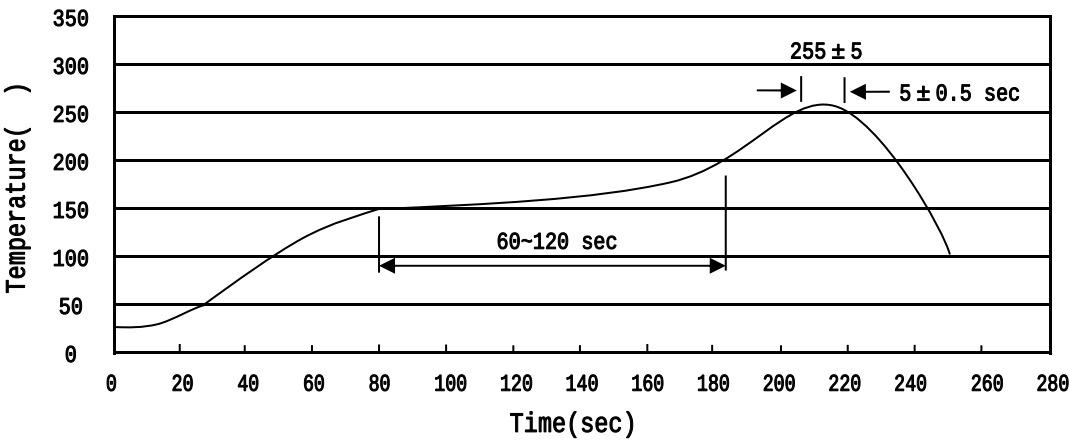
62

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)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
SOT-23	3,000	10	30,000	6	180,000	7 ×8	180×120×180	390×385×205

/ Notices