

产品规格书

批 准	审 核	校 核	编 制
纪春华	朴致均	赵宇辉	郑羿
2019.02.25	2019.02.25	2019.02.25	2019.02.25

规格书更改履历:

序号	更改内容	履历号	更改时间	责任人
1	新规制定	000	2016.07.29	郑羿
2	增加封皮	001	2018.09.03	郑羿
3	增加 Taping 标准	002	2019.02.25	郑羿

Descriptions


- Switching application
- Interface circuit and driver circuit application

PIN Connection

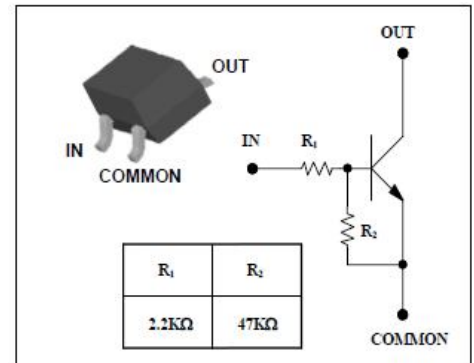
Features

- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and Manufacturing process
- High packing density

Ordering Information

Type NO.	Marking	Package Code
KRC1205S	RC5  • ① ②	SOT-23

① Device Code ② Year& Week Cod • Dalian



Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Ratings	Unit
Output voltage	V_O	50	V
Input voltage	V_I	15,-5	V
Output current	I_O	100	mA
Power dissipation	P_D	200	mW
Junction temperature	T_J	150	°C
Storage temperature range	T_{stg}	-50~150	°C

Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Output cut-off current	$I_{O(OFF)}$	$V_O=50V, V_I=0$	-	-	500	nA
DC current gain	G_I	$V_O=5V, I_O=10mA$	80	200	-	-
Output voltage	$V_{O(ON)}$	$I_O=10mA, I_I=0.5mA$	-	0.1	0.3	V
Input voltage (ON)	$V_{I(ON)}$	$V_O=0.2V, I_O=5mA$	-	-	1.1	V
Input voltage (OFF)	$V_{I(OFF)}$	$V_O=5V, I_O=0.1mA$	0.5	-	-	V
Transition frequency	f_T^*	$V_O=10V, I_O=5mA, f=1MHz$	-	200	-	MHz
Input current	I_I	$V_I=5V, I_O=0$	-	-	3.6	mA
Input resistor (Input to base)	R_1	-	1.54	2.2	2.86	KΩ
Input resistor (Base to common)	R_2	-	33	47	61	KΩ

* : Characteristic of transistor only

Electrical Characteristic Curves

Fig. 1 $P_D - T_a$

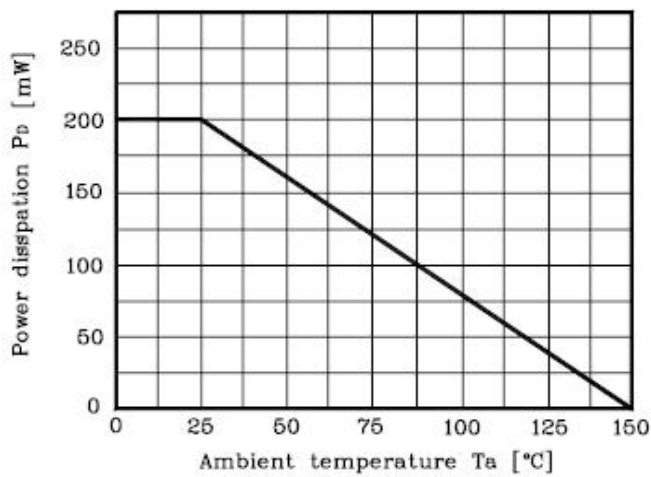


Fig. 2 $I_O - V_{I(ON)}$

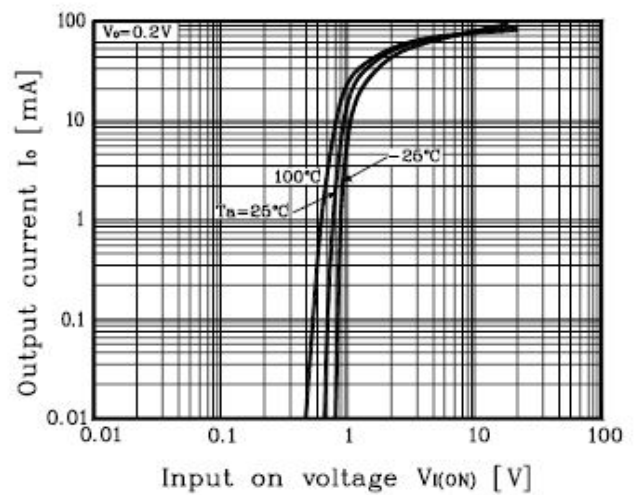


Fig. 3 $I_O - V_{I(OFF)}$

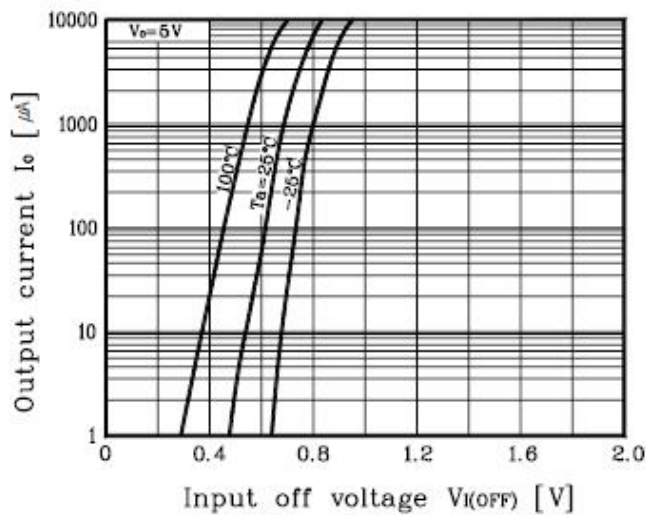
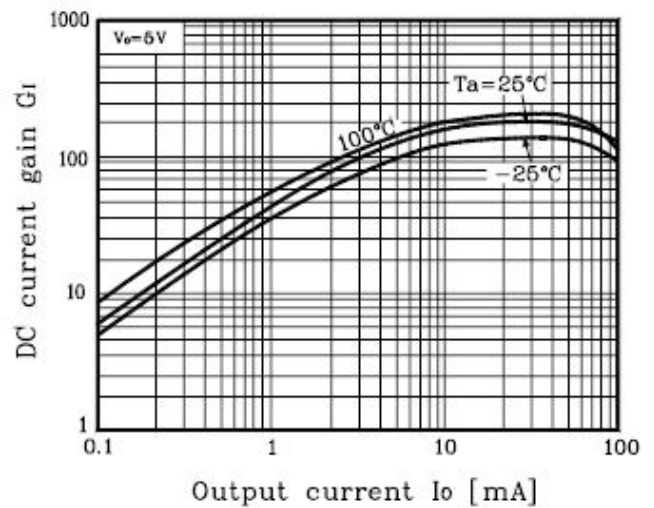
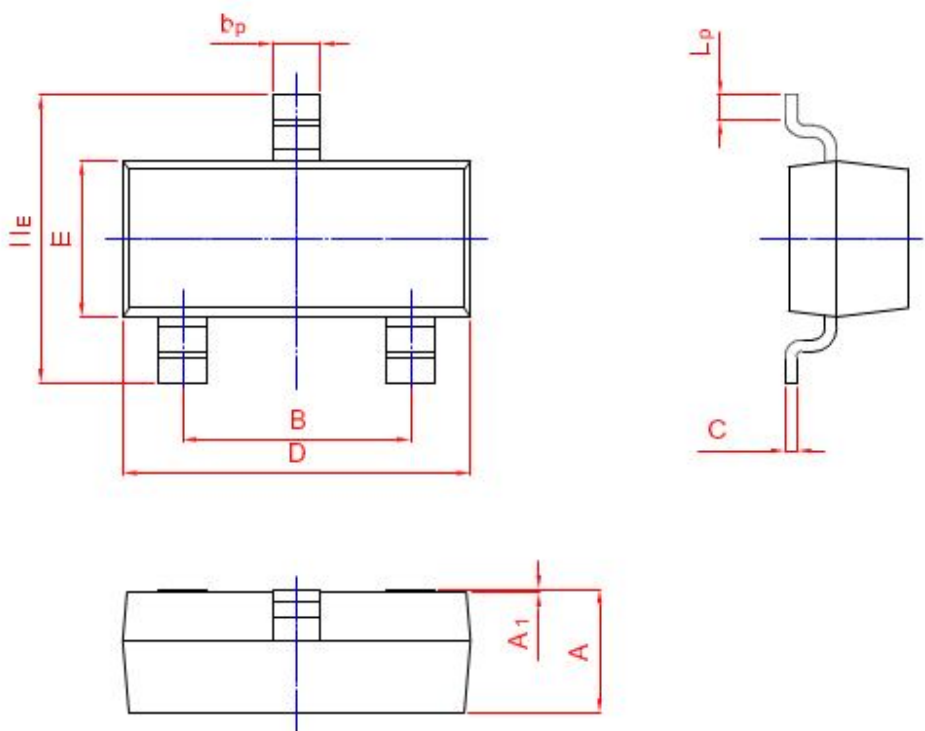


Fig. 4 $G_I - I_O$



Outline Dimension



UNIT	A	B	b_p	C	D	E	H_E	A_1	L_p
mm	1.40 0.95	2.04 1.78	0.50 0.35	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013	0.50 0.20

Packing Specification

4. Dimensions of Box

[Unit : mm]

1) Inner Box (Loaded 10 reels)



Quantity : 3,000×100a=300Kpcs

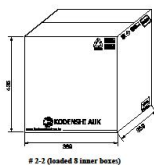
2) Out Box

# 2-1 (Loaded 4 inner boxes)
Quantity : 30K×4a=120Kpcs

Inner Box LABEL

DVC : _____
 LOT : _____ QTY : _____ SN : _____
 W/D : _____ MADE IN XXXXXX

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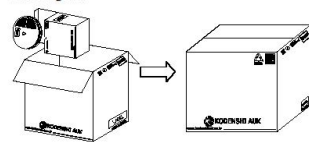
# 2-2 (Loaded 8 inner boxes)
Quantity : 30K×8a=240Kpcs

Out Box LABEL

DVC : _____
 LOT No : _____ QTY : _____ [RoHS]
 BOX No : _____

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5. Packing flow



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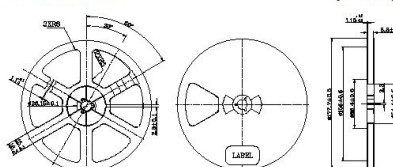
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SOT-23, SOT-23F Packing Specification

1. Dimensions of reel

[Unit : mm]



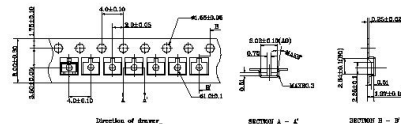
Quantity : 3,000pc/reel

DVC : _____
 LOT : _____ QTY : _____ SN : _____
 W/D : _____ MADE IN XXXXXX

[RoHS]

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2. Dimensions of tape



3. Taping format

(END)		(Start)	
Unloaded Tape	SOT-23, SOT-23F Package	Unloaded tape	Sealing tape (Cover Tape)

KSA-CSC000-003

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