

产品规格书

批 准	审 核	校 核	编 制
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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 Taping 标准	001	2019.02.25	郑羿


Descriptions

- Switching application
- Interface circuit and driver circuit application

Features

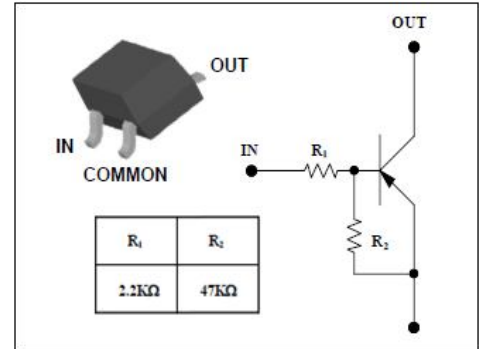
- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and Manufacturing process
- High packing density

Ordering Information

Type NO.	Marking	Package Code
KRA2205S	RA5  • ① ②	SOT-23

① Device Code ② Year & Week Cod • Dalian

PIN Connection



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 $I_O - V_{I(ON)}$

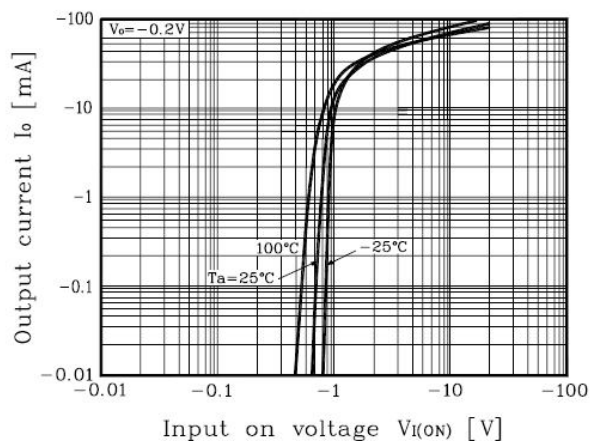


Fig. 2 $I_O - V_{I(OFF)}$

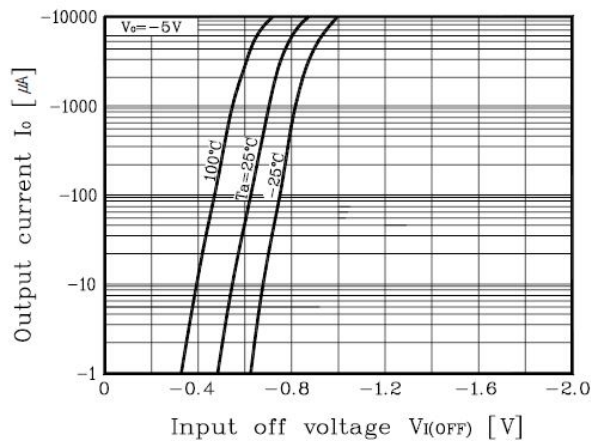
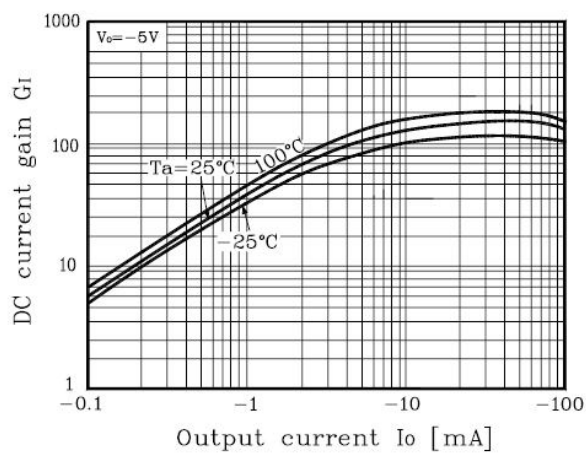
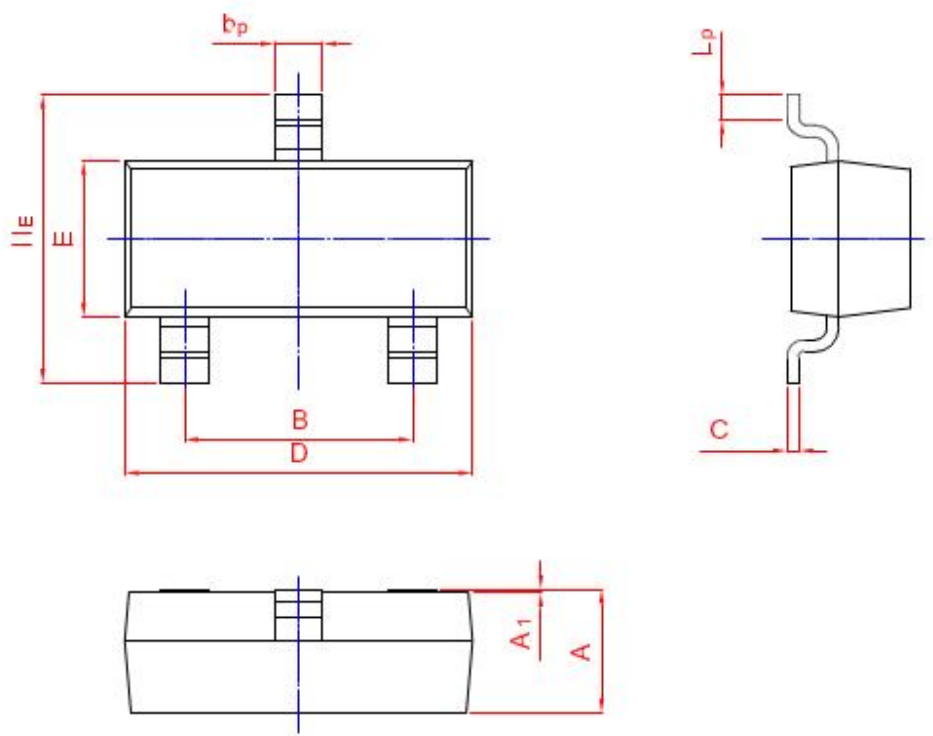


Fig. 3 $G_I - I_O$



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

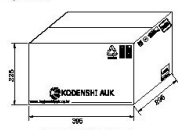
[Unit : mm]

1) Inner Box (Loaded 10 reels)



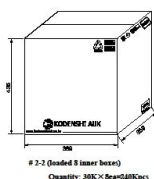
Quantity : 3,000×100a=30Kpcs

2) Out Box

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

Inner Box LABEL

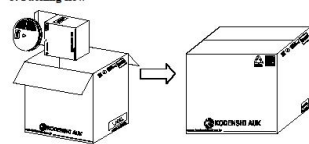
DVC : _____
 LOT : _____ QTY : _____ SN : _____
 W/D : _____ MADE IN XXXXXX

# 2-2 (Loaded 3 inner boxes)
Quantity : 30K×3=90Kpcs

Out Box LABEL

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

5. Packing flow



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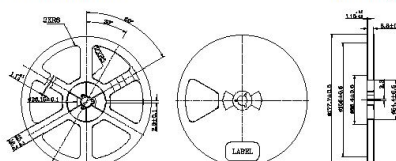
2

KODENSHI AUK

SOT-23, SOT-23F Packing Specification

1. Dimensions of reel

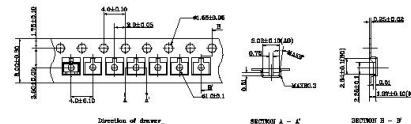
[Unit : mm]



Quantity : 3,000pc/reel

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

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

1

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