

PIN Connection

COMMON

4.7ΚΩ

OUT

10ΚΩ





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		
KRC1219S	<u>RCC</u> □ • ① ②	SOT-23		

①Device Code ② Year& Week Code • Dalian

Absolute Maximum Ratings

(Ta=25°C)

COMMON

Characteristic	Symbol	Ratings	Unit
Output voltage	Vo	50	V
Input voltage	VI	20,-7	V
Output current	Io	100	mA
Power dissipation	PD	200	mW
Junction temperature	Tı	150	$^{\circ}$ C
Storage temperature range	Tstg	-55~150	$^{\circ}$

Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Output cut-off current	Io(off)	Vo=50V, Vi=0	-	-	500	nA
DC current gain	Gı	Vo=5V, Io=10mA	30	-	-	-
Output voltage	Vo(on)	Io=10mA, II=0.5mA	-	0.1	0.3	V
Input voltage (ON)	VI(ON)	Vo=0.2V, Io=5mA	-	1.2	1.6	V
Input voltage (OFF)	VI(OFF)	Vo=5V, Io=0.1mA	0.5	0.82	-	V
Transition frequency	* f ⊤	Vo=10V, Io=5mA, f=1MHz	-	200	-	MHz
Input current	II	V _I =5V, I ₀ =0	-	-	1.8	mA
Input resistor (Input to base)	R ₁	-	3.3	4.7	6.1	K Ω
Input resistor (Base to common)	R ₂	-	7	10	13	K Ω

^{* :} Characteristic of transistor only

Electrical Characteristic Curves

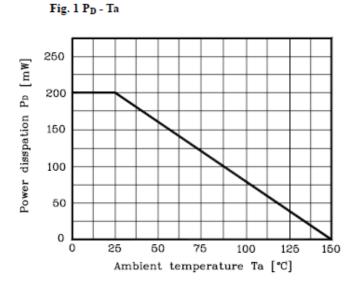


Fig. 2 Io - VI(ON)

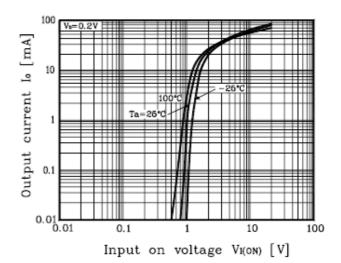


Fig. 3 Io - VI(OFF)

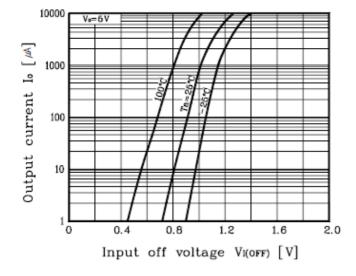
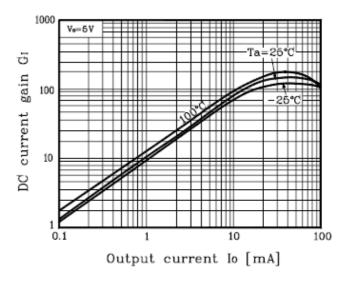
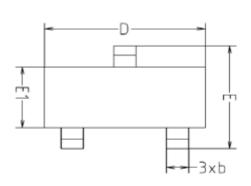
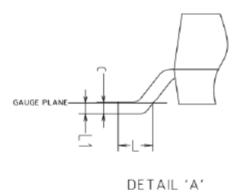


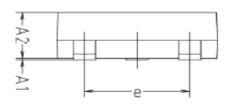
Fig. 4 G_I- I_O

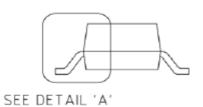


Outline Dimension



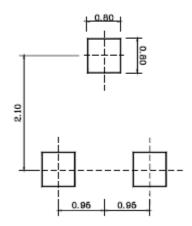






SYMBOL	MILLIMETERS			NOTE
3111000	MINIMUM	NOMINAL	MAXIMUM	14012
A1	0.00	-	0.10	
A2	0.82	-	1.02	
b	0.39	0.42	0.45	
С	0.09	0.12	0.15	
D	2.80	2.90	3.00	
E	2.20	2.40	2.60	
E1	1.20	1.30	1.40	
e	1.90BSC			
L	0.20	-	-	
L1		0.12BSC		

*****Recommend PCB solder land [Unit: mm]



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