

SRA2201N

PNP Silicon Transistor

Descriptions

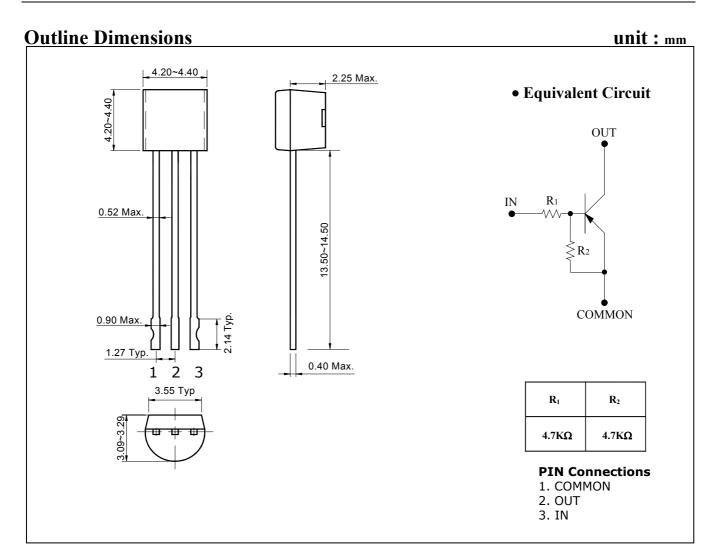
- Switching application
- Interface circuit and driver circuit application

Features

- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process
- Complementary pair with SRC1201N

Ordering Information

Type NO.	Marking	Package Code		
SRA2201N	SRA2201	TO-92N		



Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit	
Output voltage	Vo	-50	V	
Input voltage	$V_{\rm I}$	-20, 10	V	
Output current	I_{O}	-100	mA	
Power dissipation	P_D	400	mW	
Junction temperature	T _J	150	°C	
Storage temperature range	T_{stg}	-55 ~ 150	°C	

Electrical Characteristics

(Ta=25°C)

2

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Output cut-off current	I _{O(OFF)}	$V_0 = -50V, V_I = 0$	ı	-	-500	nA
DC current gain	G_{I}	$V_0 = -5V$, $I_0 = -10$ mA	30	55	-	-
Output voltage	$V_{O(ON)}$	I_O =-10mA, I_I =-0.5mA	ı	-0.1	-0.3	٧
Input voltage (ON)	$V_{I(ON)}$	$V_0 = -0.2V$, $I_0 = -5mA$	ı	-1.5	-2.0	٧
Input voltage (OFF)	$V_{I(OFF)}$	$V_0 = -5V$, $I_0 = -0.1$ mA	-1.0	-1.2	-	V
Transition frequency	f_T^*	V_O =-10V, I_O =-5mA, f=1MHz	ı	200	-	MHz
Input current	I_{I}	V_{I} =-5V, I_{O} =0	ı	-	-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	-	3.3	4.7	6.1	K Ω

^{* :} Characteristic of transistor only

KSD-R0C012-000

3

Electrical Characteristic Curves

Fig. 1 I_O - $V_{I(ON)}$

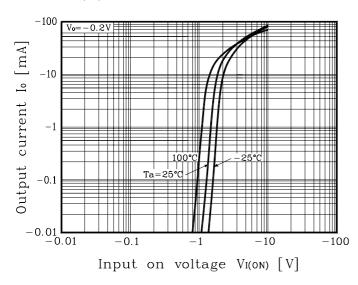


Fig. 2 I_O - $V_{I(OFF)}$

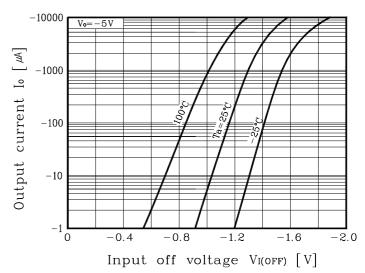
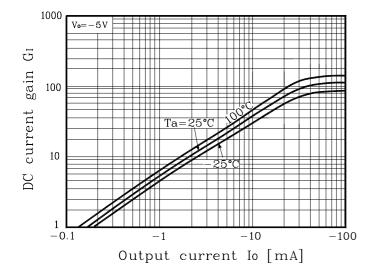


Fig. 3 G_I - I_O



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