

### Descriptions

- Switching application
- Interface circuit and driver circuit application

### Features

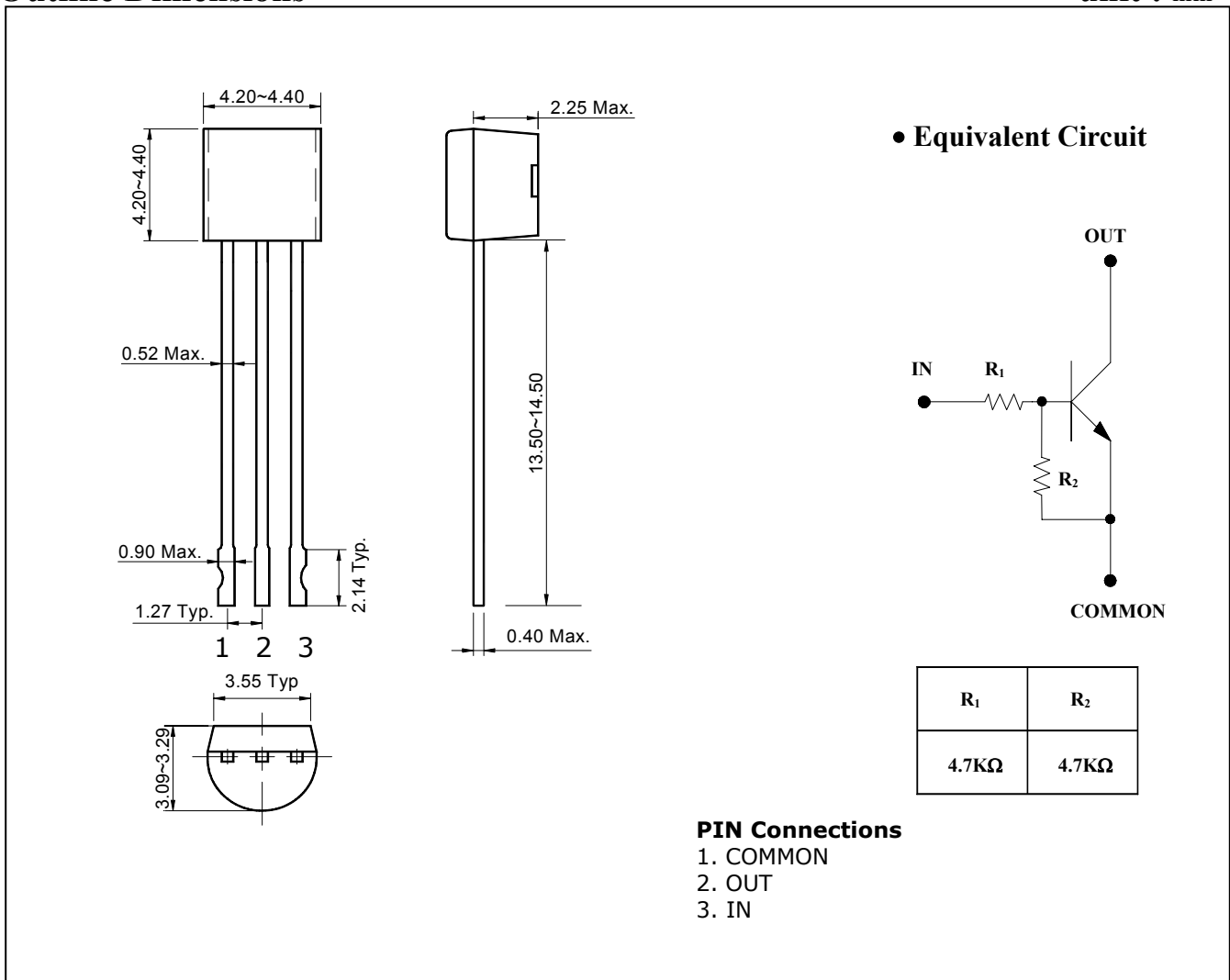
- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process
- Complementary pair with SRA2201N

### Ordering Information

Type NO.	Marking	Package Code
SRC1201N	SRC1201	TO-92N

### Outline Dimensions

unit : mm



## Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Output voltage	$V_O$	50	V
Input voltage	$V_I$	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

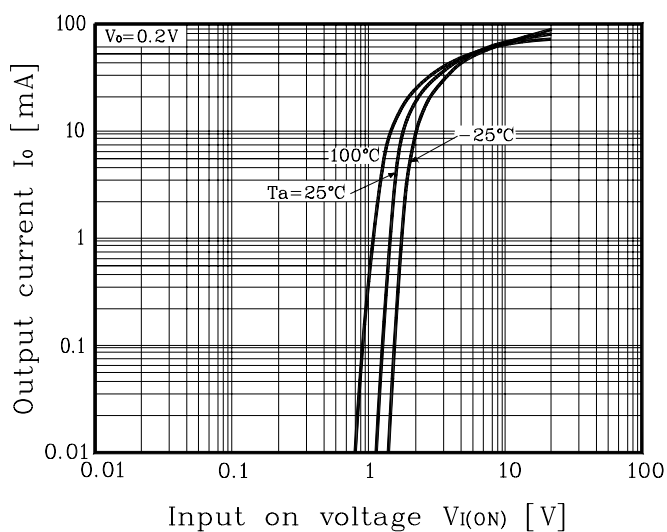
(Ta=25°C)

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	$G_I$	$V_O=5V, I_O=10mA$	30	55	-	-
Output voltage	$V_{O(ON)}$	$I_O=10mA, I_I=0.5mA$	-	0.1	0.3	V
Input voltage (ON)	$V_{I(ON)}$	$V_O=0.2V, I_O=5mA$	-	1.5	2.0	V
Input voltage (OFF)	$V_{I(OFF)}$	$V_O=5V, I_O=0.1mA$	1.0	1.2	-	V
Transition frequency	$f_T^*$	$V_O=10V, I_O=5mA, f=1MHz$	-	200	-	MHz
Input current	$I_I$	$V_I=5V, I_O=0$	-	-	1.8	mA
Input resistor (Input to base)	$R_1$	-	3.3	4.7	6.1	K $\Omega$
Input resistor (Base to common)	$R_2$	-	3.3	4.7	6.1	K $\Omega$

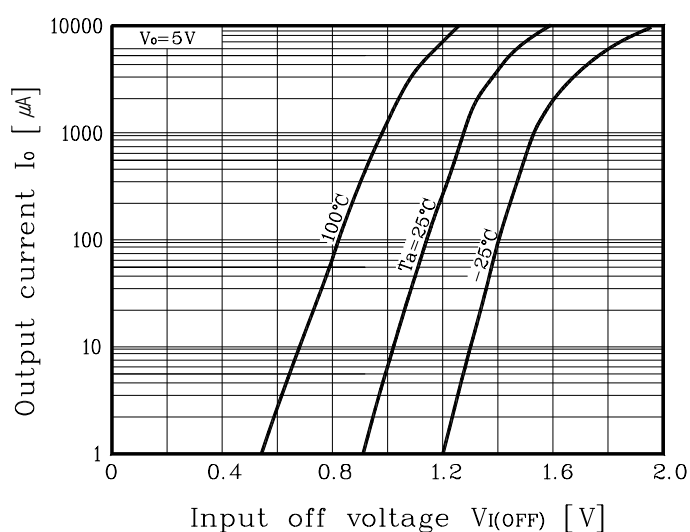
\* : Characteristic of transistor only

## Electrical Characteristic Curves

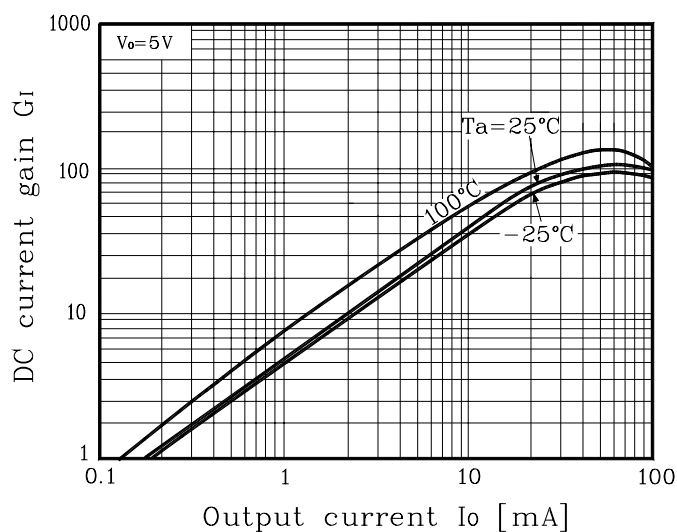
**Fig. 1**  $I_O - V_{I(ON)}$



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



**Fig. 3**  $G_I - I_O$



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