

unit : mm

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 SRA2204N

Ordering Information

Type NO.	Marking	Package Code		
SRC1204N	SRC1204	TO-92N		

Outline Dimensions

• Equivalent Circuit 4.20~4.40 2.25 Max. 4.20~4.40 OUT \mathbf{R}_1 IN 0.52 Max 50~14.50 $\lesssim R_2$ <u>5</u> COMMON 2.14 Typ. 0.90 Max 1.27 Typ. 0.40 Max. 3 2 1 \mathbf{R}_1 \mathbf{R}_2 3.55 Typ 47KΩ 47KΩ 09~3.29 **PIN Connections** 1. COMMON 2. OUT 3. IN

SRC1204N

Absolute Maximum Ratings

Absolute Maximum Ratings		(Ta=25°C)			
Characteristic	Symbol	Rating	Unit		
Output voltage	Vo	50	V		
Input voltage	VI	40,-10	V		
Output current	I _O	100	mA		
Power dissipation	P _D	400	mW		
Junction temperature	Tյ	150	°C		
Storage temperature range	T _{stg}	-55 ~ 150	°C		

Electrical Characteristics

Electrical Characteristics						(Ta=25°C)	
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit	
Output cut-off current	I _{O(OFF)}	$V_0 = 50V, V_I = 0$	-	-	500	nA	
DC current gain	GI	V ₀ =5V, I ₀ =10mA	80	200	-	-	
Output voltage	V _{O(ON)}	$I_0=10$ mA, $I_I=0.5$ mA	-	0.1	0.3	V	
Input voltage (ON)	V _{I(ON)}	V ₀ =0.2V, I ₀ =5mA	-	2.8	5.0	V	
Input voltage (OFF)	V _{I(OFF)}	V ₀ =5V, I ₀ =0.1mA	1.0	1.2	-	V	
Transition frequency	f _T *	$V_0=10V$, $I_0=5mA$, f=1MHz	-	200	-	MHz	
Input current	II	V _I =5V, I _O =0	-	-	0.18	mA	
Input resistor (Input to base)	R ₁	-	33	47	61	KΩ	
Input resistor (Base to common)	R ₂	-	33	47	61	KΩ	

* : Characteristic of transistor only

Electrical Characteristic Curves

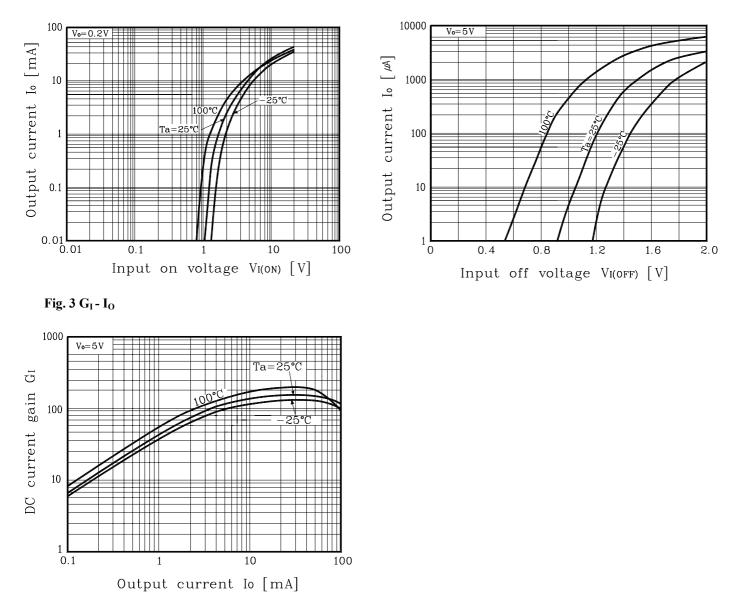


Fig. 1 Io - VI(ON)

Fig. 2 Io - VI(OFF)

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