

SRA2204U

PNP Silicon Transistor

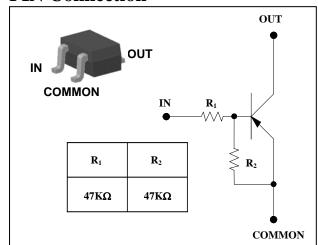
Descriptions

- 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
- · High packing density

PIN Connection



Ordering Information

4R 🗆	Type NO.	Marking	Package Code	
SRA22040 <u>1</u> 2 SUI-323	SRA2204U	<u>4R</u> □ ① ②	SOT-323	

①Device Code ②Year&Week Code

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}	200	mW
Junction temperature	TJ	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)}	$V_0 = -50V, V_1 = 0$	-	-	-500	nA
DC current gain	Gı	$V_0 = -5V$, $I_0 = -10$ mA	80	200	-	-
Output voltage	$V_{O(ON)}$	I _O =-10mA, I _I =-0.5mA	ı	-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)}	$V_0 = -5V$, $I_0 = -0.1$ mA	-1.0	-1.2	-	V
Transition frequency	f _T *	$V_0 = -10V$, $I_0 = -5mA$, $f = 1MHz$	ı	200	-	MHz
Input current	I_1	$V_1 = -5V, I_0 = 0$	-	-	-0.18	mA
Input resistor (Input to base)	R ₁	-	33	47	61	KΩ
Input resistor (Base to common)	R ₂	-	33	47	61	ΚΩ

^{* :} Characteristic of transistor only

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Electrical Characteristic Curves

Fig. 1 Pc - Ta

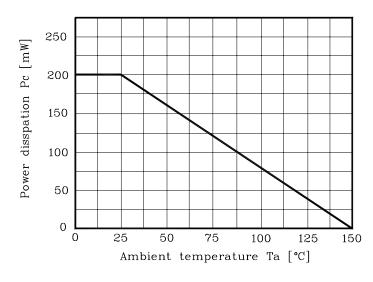


Fig. 2 $I_{\rm O}$ - $V_{\rm I(ON)}$

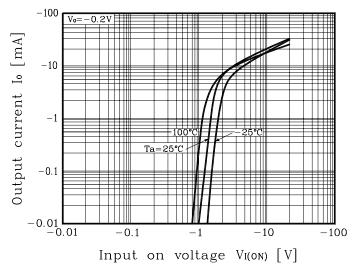


Fig. 3 $I_{\rm O}$ - $V_{\rm I(OFF)}$

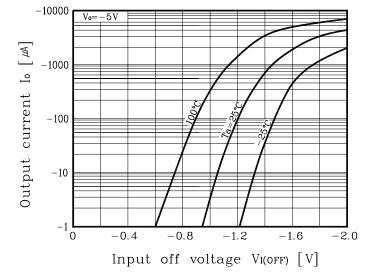
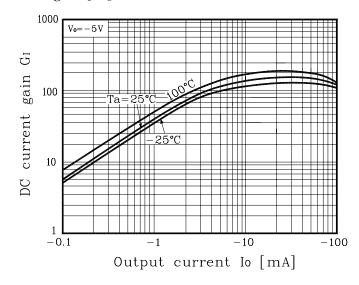


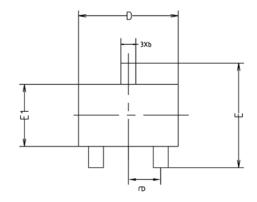
Fig. 4 G_I - I_O

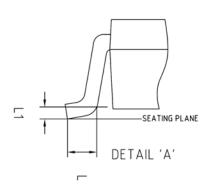


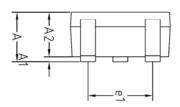
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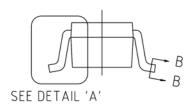
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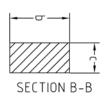
Outline Dimension





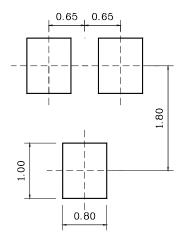






SYMBOL	1	NOTE		
STRIBOL	MINIMUM	NOMINAL	MAXIMUM	NUTE
Α	0.90	-	1.25	
A1	0.00	-	0.10	
A2	0.85	0.90	0.95	
Ь	0.30	-	0.40	
С	0.10	-	0.25	
D	1.90	2.00	2.10	
E	1.95	2.10	2.25	
E1	1.15	1.25	1.35	
е	0.65BSC			
e1	1.20	-	1.40	
L	0.10	-	-	
11		0.12BS	(

*Recommend PCB solder land [Unit: mm]



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