

# **SRA2205E**

**PNP Silicon Transistor** 

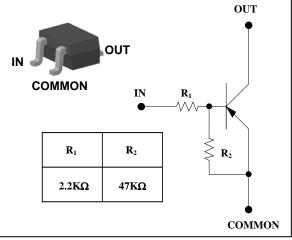
### **Descriptions**

- 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**

Type NO.	Marking	Package Code
SRA2205E	5R	SOT-523
	Device Code 2 Vear&Week Code	

Device Code ② Year&Week Code

### Absolute Maximum Ratings

Absolute Maximum Ratings			(Ta=25°C)		
Characteristic	Symbol	Rating	Unit		
Output voltage	Vo	-50	V		
Input voltage	VI	-15, 5	V		
Output current	Ι <sub>ο</sub>	-100	mA		
Power dissipation	P <sub>D</sub>	150	mW		
Junction temperature	TJ	150	٥C		
Storage temperature range	T <sub>stg</sub>	-55 ~ 150	°C		

#### **Electrical Characteristics**

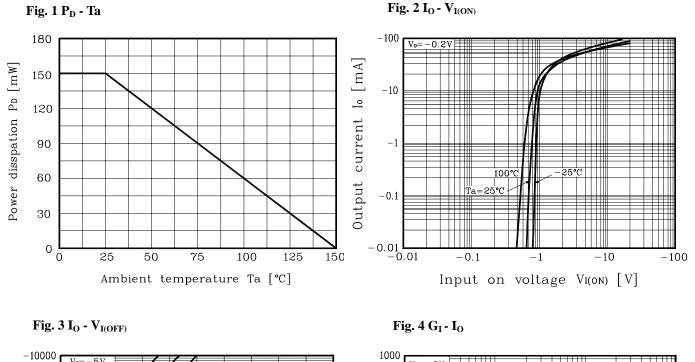
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Output cut-off current	I <sub>O(OFF)</sub>	$V_0 = -50V, V_1 = 0$	-	-	-500	nA
DC current gain	Gı	V <sub>O</sub> =-5V, I <sub>O</sub> =-10mA	80	200	-	-
Output voltage	V <sub>O(ON)</sub>	I <sub>0</sub> =-10mA, I <sub>1</sub> =-0.5mA	-	-0.1	-0.3	V
Input voltage (ON)	V <sub>I(ON)</sub>	$V_0 = -0.2 V$ , $I_0 = -5 m A$	-	-	-1.1	V
Input voltage (OFF)	V <sub>I (OFF)</sub>	$V_0 = -5V, I_0 = -0.1 \text{ mA}$	-0.5	-	-	V
Transition frequency	f <sub>T</sub> *	$V_0$ = -10V, $I_0$ = -5mA, f= 1MHz	-	200	-	MHz
Input current	I <sub>1</sub>	V <sub>1</sub> =-5V, I <sub>0</sub> =0	-	-	-3.6	mA
Input resistor (Input to base)	R <sub>1</sub>	-	1.54	2.2	2.86	KΩ
Input resistor (Base to common)	R <sub>2</sub>	-	33	47	61	KΩ

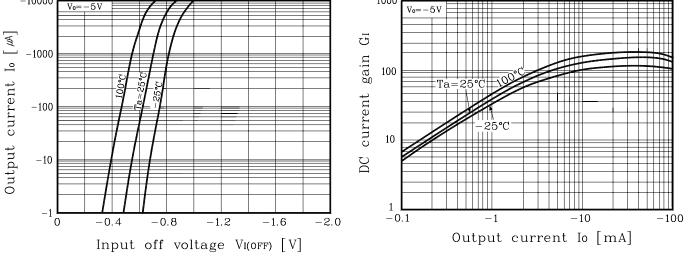
\* : Characteristic of transistor only

(Ta=25°C)

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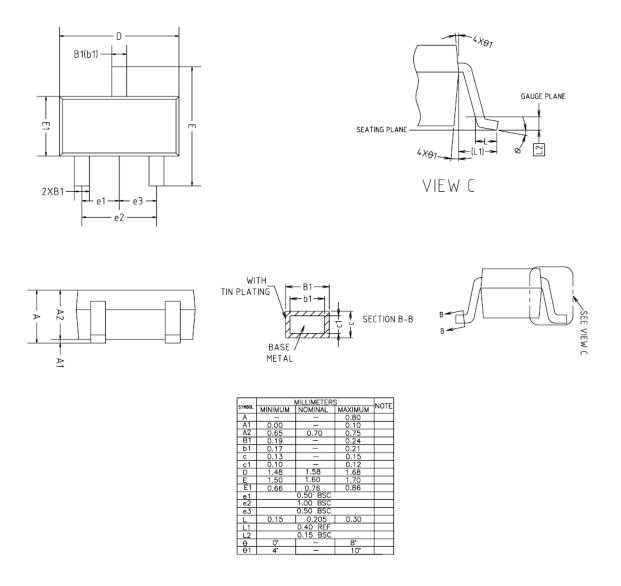
## **Electrical Characteristic Curves**



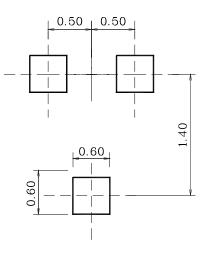


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## **Outline Dimension**



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



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