

SRA2202E

PNP Silicon Transistor

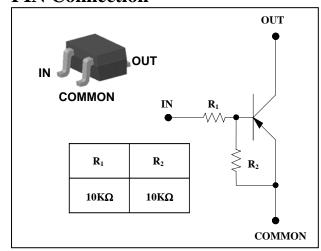
Descriptions

- 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	
SRA2202E	<u>2R</u> □ ① ②	SOT-523	

1 Device Code 2 Year&Week Code

Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Output voltage	Vo	-50	V
Input voltage	VI	-30, 10	V
Output current	I _O	-100	mA
Power dissipation	P_{D}	150	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	G _I	$V_0 = -5V$, $I_0 = -10$ mA	50	80	-	-
Output voltage	V _{O(ON)}	I _O =-10mA, I _I =-0.5mA	-	-0.1	-0.3	V
Input voltage (ON)	V _{I(ON)}	$V_0 = -0.2V$, $I_0 = -5mA$	-	-1.8	-2.4	V
Input voltage (OFF)	$V_{I(OFF)}$	$V_0 = -5V$, $I_0 = -0.1$ mA	-1.0	-1.2	-	V
Transition frequency	f_T^*	$V_0 = -10V$, $I_0 = -5mA$, $f = 1MHz$	-	200	-	MHz
Input current	I ₁	$V_1 = -5V, I_0 = 0$	-	-	-0.88	mA
Input resistor (Input to base)	R ₁	-	7	10	13	KΩ
Input resistor (Base to common)	R_2	-	7	10	13	ΚΩ

^{* :} Characteristic of transistor only

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Electrical Characteristic Curves

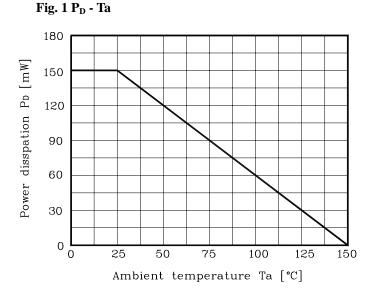


Fig. 2 I_O - $V_{I(ON)}$

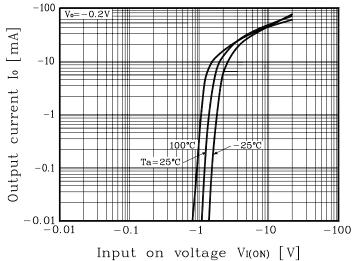


Fig. 3 I_O - $V_{I(OFF)}$

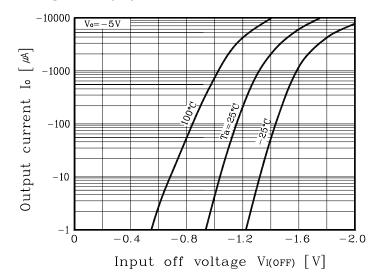
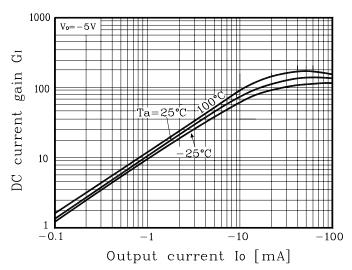
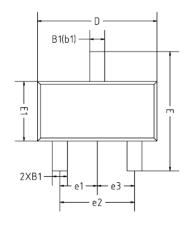


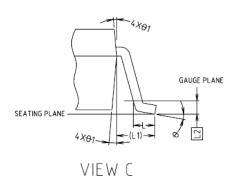
Fig. 4 G_I - I_O

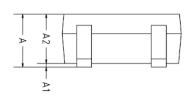


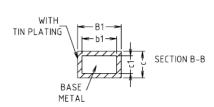
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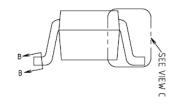
Outline Dimension





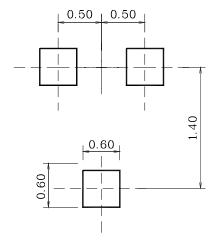






	MILLIMETERS			
SYMBOL	MINIMUM	NOMINAL	MAXIMUM	NOTE
Α	_	-	0.80	
A1	0.00	_	0.10	
A2	0.65	0.70	0.75	
B1	0.19	_	0.24	
b1	0.17	_	0.21	
С	0.13	-	0.15	
c1	0.10	_	0.12	
D	1.48	1.58	1.68	
E E1	1.50	1.60	1.70	
E1	0.66	0.76	0.86	
e1		0.50 BSC		
e2		1.00 BSC		
e3		0.50 BSC		
L	0.15	0.205	0.30	
L1		0.40 REF		
L2		0.15 BSC		
0	0,	_	8.	
0 1	4'	_	10	

*Recommend PCB solder land [Unit: mm]



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