

PNP Silicon Transistor

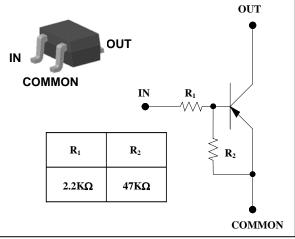
Descriptions

- 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
SRA2205U	<u>5R</u> □ ① ②	SOT-323
	Dovice Code Vear& Week Co	

①Device Code ②Year&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 _ο	-100	mA
Power dissipation	P _D	200	mW
Junction temperature	TJ	150	٥C
Storage temperature range	T _{stg}	-55 ~ 150	°C

Electrical Characteristics

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

* : Characteristic of transistor only

(Ta=25°C)

Electrical Characteristic Curves

-10000

-1000

-100

-10

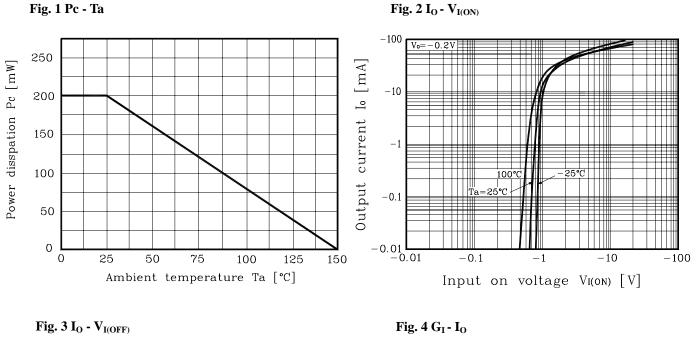
-1 L 0

-0.4

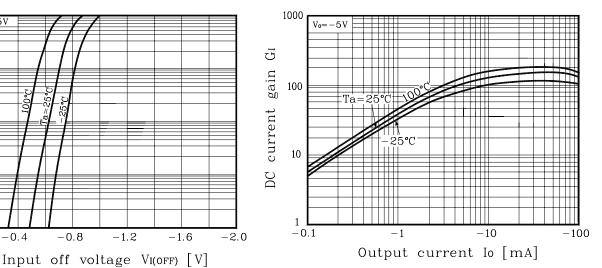
-0.8

Output current Io [#]

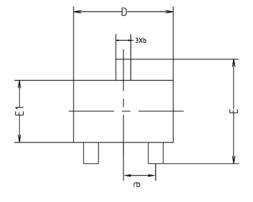
 $V_0 = -5V$

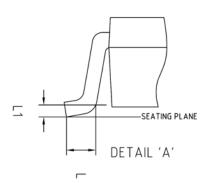


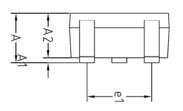


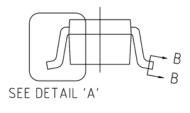


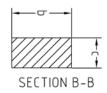
Outline Dimension





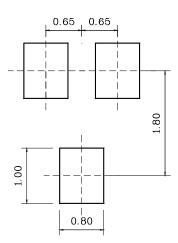






SYMBOL	MILLIMETERS			NOTE	
STRIDUL	MINIMUM	NOMINAL	MAXIMUM	NUTE	
A	0.90	-	1.25		
A1	0.00	-	0.10		
A2	0.85	0.90	0.95		
b	0.30	-	0.40		
с	0.10	-	0.25		
D	1.90	2.00	2.10		
E	1.95	2.10	2.25		
E1	1.15	1.25	1.35		
е	0.65BSC				
e1	1.20	-	1.40		
L	0.10	-	-		
L1	0.12BSC				

*Recommend PCB solder land [Unit: mm]



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