

SRA2206S

PNP Silicon Transistor

Descriptions

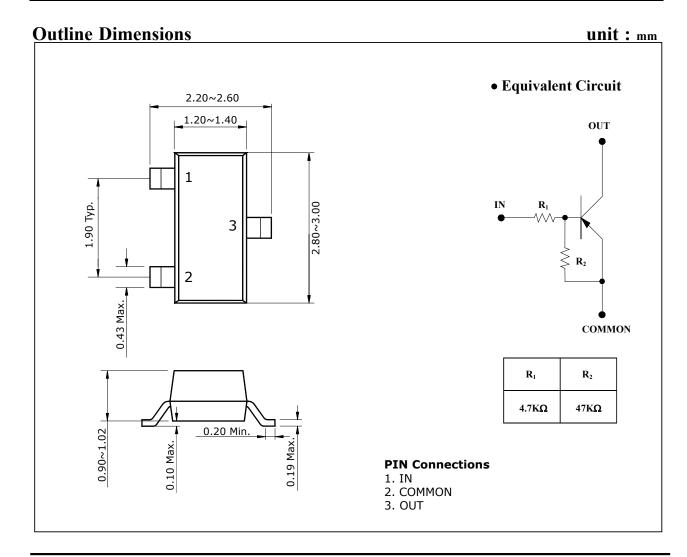
- Switching application
- Interface circuit and driver circuit application

Features

- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process
- High packing density

Ordering Information

Type NO.	Marking	Package Code	1	
SRA2206S	RA6	SOT-23		



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Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Output voltage	Vo	-50	V
Input voltage	$V_{\rm I}$	-20, 5	V
Output current	I_{O}	-100	mA
Power dissipation	P_{D}	200	mW
Junction temperature	$T_{\mathtt{J}}$	150	°C
Storage temperature range	T_{stg}	-55 ~ 150	°C

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	G_{I}	$V_0 = -5V$, $I_0 = -10$ mA	80	200	-	-
Output voltage	V _{O(ON)}	I_O =-10mA, I_I =-0.5mA	-	-0.1	-0.3	V
Input voltage (ON)	$V_{I(ON)}$	V_{O} =-0.2V, I_{O} =-5mA	-	-0.9	-1.3	V
Input voltage (OFF)	$V_{I(OFF)}$	V_{O} =-5V, I_{O} =-0.1mA	-0.5	-0.65	-	V
Transition frequency	f _T *	V_O =-10V, I_O =-5mA, f=1MHz	-	200	-	MHz
Input current	I_{I}	V_{I} =-5V, I_{O} =0	-	-	-1.8	mA
Input resistor (Input to base)	R_1	-	3.3	4.7	6.1	K Ω
Input resistor (Base to common)	R ₂	-	33	47	61	K Ω

^{* :} Characteristic of transistor only

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Electrical Characteristic Curves

Fig. 1 I_0 - $V_{I(ON)}$

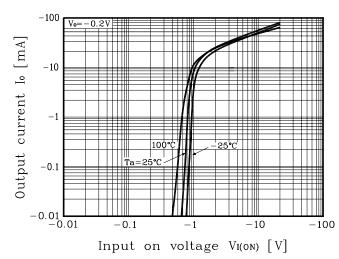


Fig. 2 I_O - V_{I(OFF)}

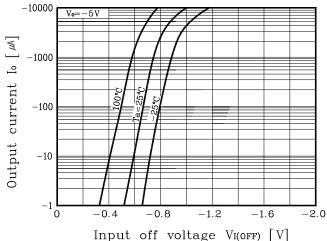
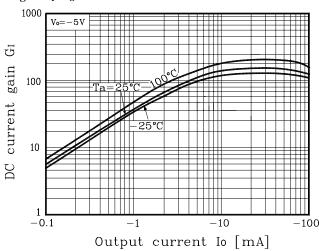


Fig. 3 G_I - I_O



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