

PNP Silicon Transistor

 \mathbf{R}_1

OUT

 \mathbf{R}_2

 $(T_9-25^{\circ}C)$

COMMON

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
SRA2206EF	<u>6R</u> <u>□</u> ① ②	SOT-523F
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1) Device Code 2) Year&Week Code

Absolute Maximum Ratings

Absolute Maximum Ratings			(1a-25 C)
Characteristic	Symbol	Rating	Unit
Output voltage	Vo	-50	V
Input voltage	Vı	-20, 5	V
Output current	Ι _ο	-100	mA
Power dissipation	P _D	150	mW
Junction temperature	TJ	150	°C
Storage temperature range	T _{stg}	-55 ~ 150	°C

Electrical Characteristics

Electrical Characteristics					(Ta:	=25°C)
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Output cut-off current	I _{O(OFF)}	$V_0 = -50V, V_1 = 0$	-	-	-500	nA
DC current gain	Gı	$V_0 = -5V$, $I_0 = -10mA$	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)}	$V_0 = -0.2V$, $I_0 = -5mA$	-	-0.9	-1.3	V
Input voltage (OFF)	V _{I(OFF)}	$V_0 = -5V$, $I_0 = -0.1mA$	-0.5	-0.65	-	V
Transition frequency	f_{T}^{*}	V_0 =-10V, I_0 =-5mA, f=1MHz	-	200	-	MHz
Input current	I ₁	$V_1 = -5V, I_0 = 0$	-	-	-1.8	mA
Input resistor (Input to base)	R_1	-	3.3	4.7	6.1	KΩ
Input resistor (Base to common)	R_2	-	33	47	61	KΩ

* : Characteristic of transistor only

PIN Connection

COMMON

R₁

4.7ΚΩ

IN

OUT

IN

 \mathbf{R}_2

47KΩ

-10

Output current Io [mA]

-1

Electrical Characteristic Curves



-10

-1 **L** 0

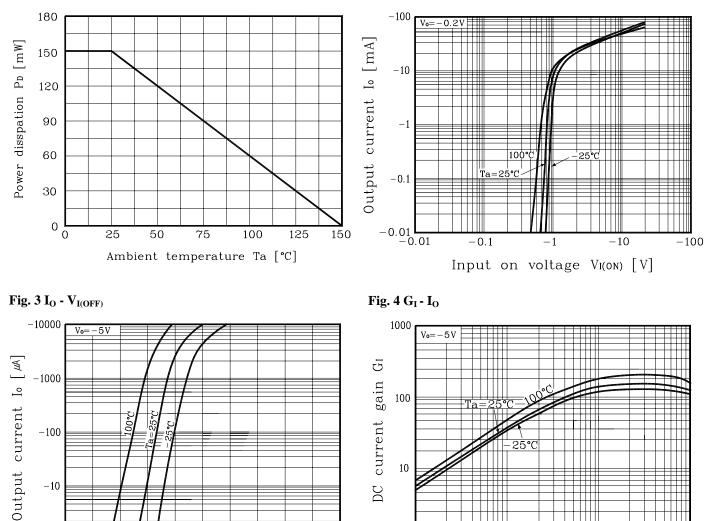
-0.8

-0.4

-1.2

Input off voltage VI(OFF) [V]

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



10

1

-0.1

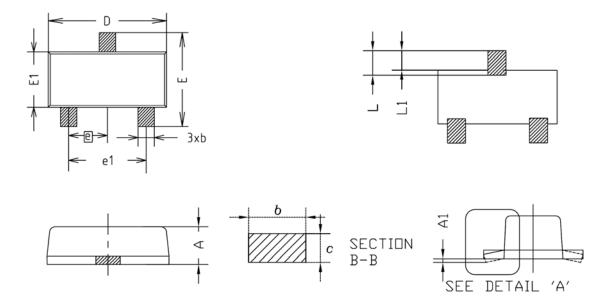
DC

-2.0

-1.6

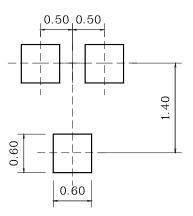
-100

Outline Dimension



SYMBOL	MILLIMETERS			NOTO	
STHDUL	MINIMUM	NOMINAL	MAXIMUM	NDTE	
Α	0.63	0.68	0.73		
A1	0.00	-	0.10		
A2	-	-	-		
b	0.25	0.30	0.35		
С	0.04	0.11	0.20		
D	1.50	1.60	1.70		
E	1.50	1.60	1.70		
E1	0.78	0.88	0.98		
e	0.50BSC				
e1	0.90	-	1.10		
L	0.34	0.44	0.54		
L1	0.28	0.34	0.43		

*Recommend PCB solder land [Unit: mm]



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