

Descriptions

- Switching application
- Interface circuit and driver circuit application

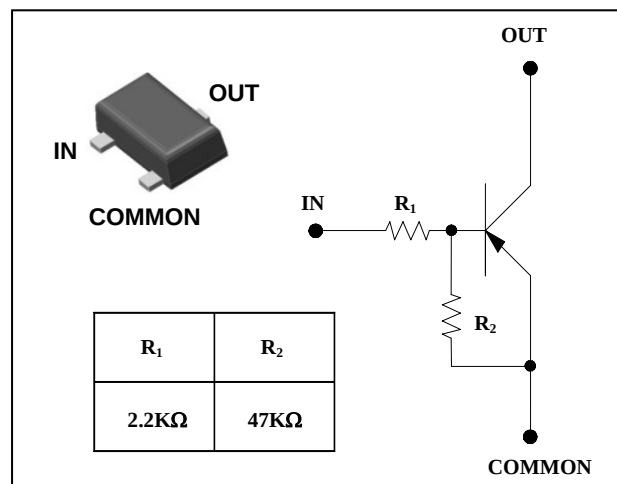
Features

- 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
SRA2205UF	5R ① ②	SOT-323F
① Device Code ② Year&Week Code		

PIN Connection



Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Output voltage	V _O	-50	V
Input voltage	V _I	-15, 5	V
Output current	I _O	-100	mA
Power dissipation	P _D	200	mW
Junction temperature	T _J	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 _O = -50V, V _I = 0	-	-	-500	nA
DC current gain	G _I	V _O = -5V, I _O = -10mA	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	-	-	-1.1	V
Input voltage (OFF)	V _{I(OFF)}	V _O = -5V, I _O = -0.1mA	-0.5	-	-	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	-	-	-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

Electrical Characteristic Curves

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

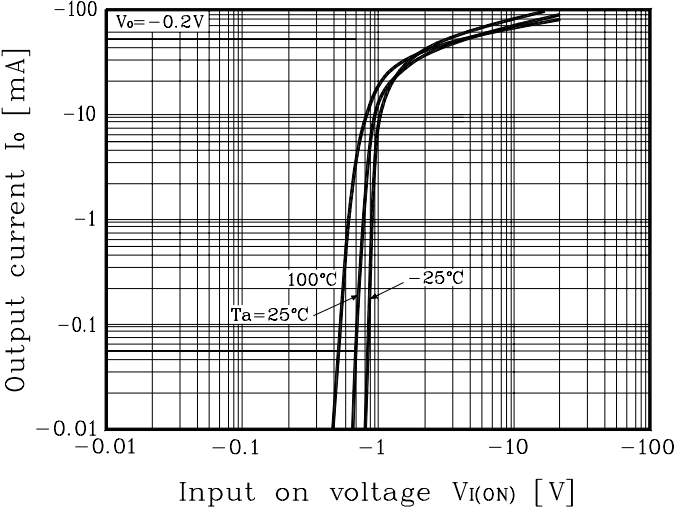


Fig. 2 $I_O - V_{I(OFF)}$

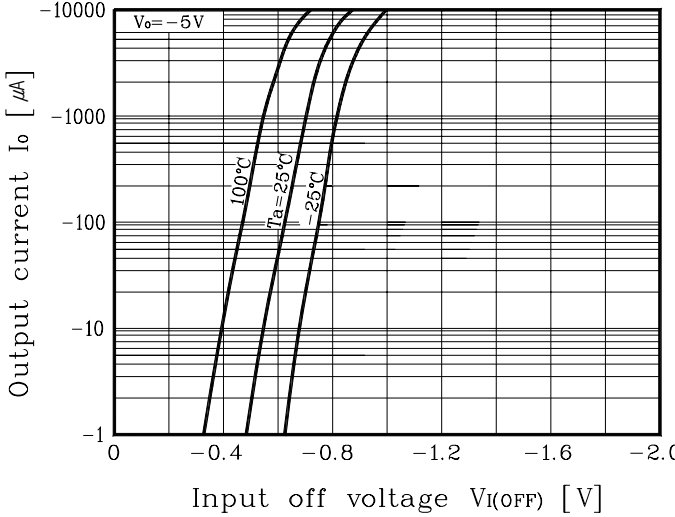
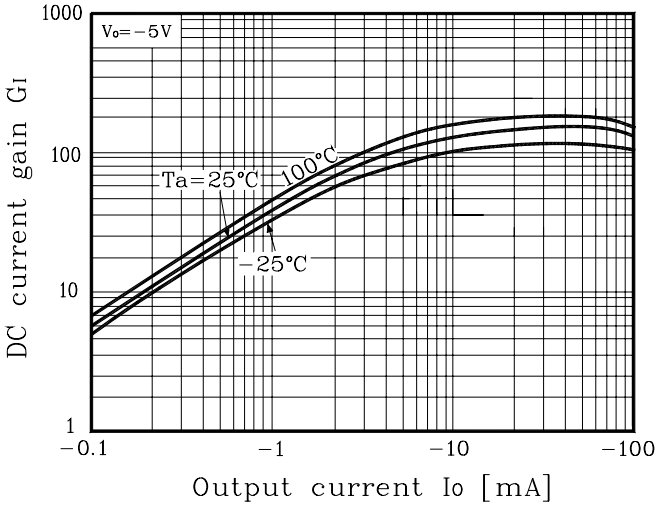
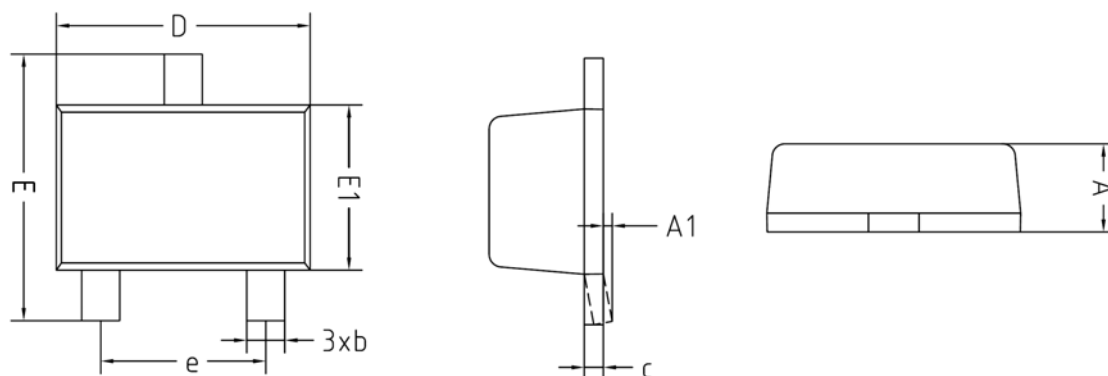


Fig. 3 $G_I - I_O$

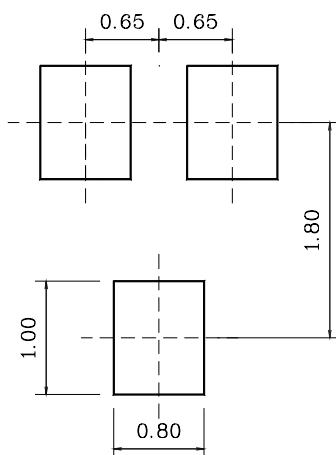


Outline Dimension



SYMBOL	MILLIMETERS			NOTE
	MINIMUM	NOMINAL	MAXIMUM	
A	0.60	-	0.80	
A1	0.00	-	0.10	
b	0.30	-	0.40	
c	0.08	-	0.16	
D	1.90	2.00	2.10	
E	1.95	2.10	2.25	
E1	1.20	1.30	1.40	
e	1.30BSC			

※Recommend PCB solder land [Unit: mm]



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