



### **Descriptions**

- Switching application
- Interface circuit and driver circuit application

#### Features

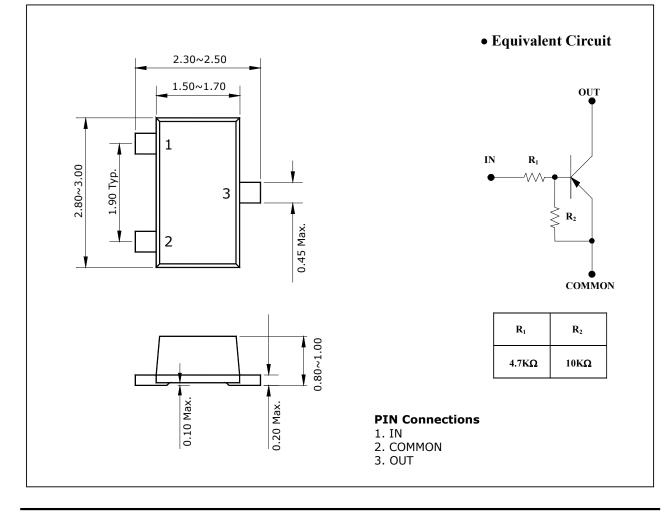
- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process
- High packing density

## **Ordering Information**

Type NO.	Marking	Package Code	
SRA2219SF	RAC	SOT-23F	

# **Outline Dimensions**

unit : mm



# **SRA2219SF**

(Ta=25°C)

## **Absolute Maximum Ratings**

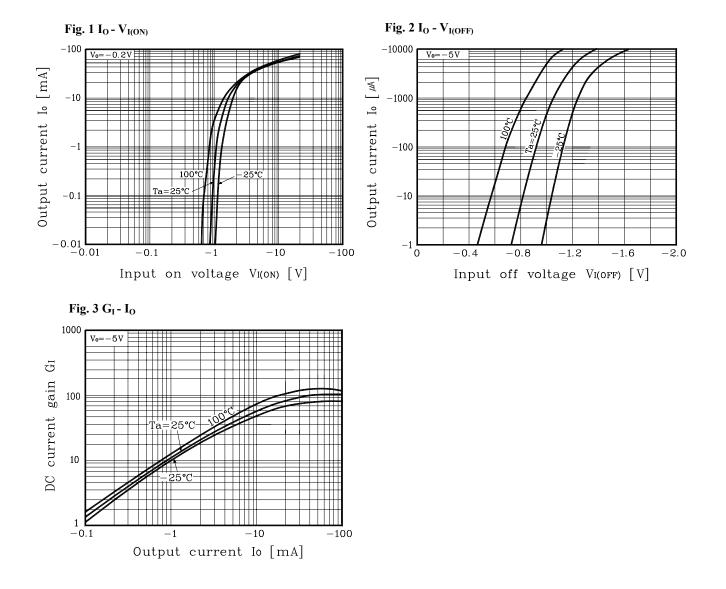
Absolute Maximum Ratings			(Ta=25°C)	
Characteristic	Symbol	Rating	Unit	
Output voltage	Vo	-50	V	
Input voltage	VI	-20, 7	V	
Output current	I <sub>O</sub>	-100	mA	
Power dissipation	P <sub>D</sub>	200	mW	
Junction temperature	TJ	150	°C	
Storage temperature range	T <sub>stg</sub>	-55 ~ 150	°C	

## **Electrical Characteristics**

Characteristic Symbol **Test Condition** Min. Max. Unit Typ.  $V_0 = -50V, V_I = 0$ -500 Output cut-off current  $I_{O(OFF)}$ \_ nA  $G_{\rm I}$ ---DC current gain  $V_0$ =-5V,  $I_0$ =-10mA 30 Output voltage V<sub>O(ON)</sub>  $I_0$ =-10mA,  $I_I$ =-0.5mA --0.1 -0.3 ٧ Input voltage (ON) V<sub>I(ON)</sub>  $V_0 = -0.2V$ ,  $I_0 = -5mA$ --1.2 -1.6 V Input voltage (OFF) V<sub>0</sub>=-5V, I<sub>0</sub>=-0.1mA -0.5 -0.82 V -V<sub>I(OFF)</sub>  $f_{T}^{*}$  $V_0$ =-10V,  $I_0$ =-5mA, f=1MHz --Transition frequency 200 MHz  $V_{I}$ =-5V,  $I_{O}$ =0 -1.8 Input current  $I_{I}$ -mΑ KΩ  $R_1$ -3.3 4.7 6.1 Input resistor (Input to base) Input resistor (Base to common) 7 10 13 KΩ  $R_2$ 

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\* : Characteristic of transistor only



### **Electrical Characteristic Curves**

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