

## Descriptions

- Switching application
- Interface circuit and driver circuit application

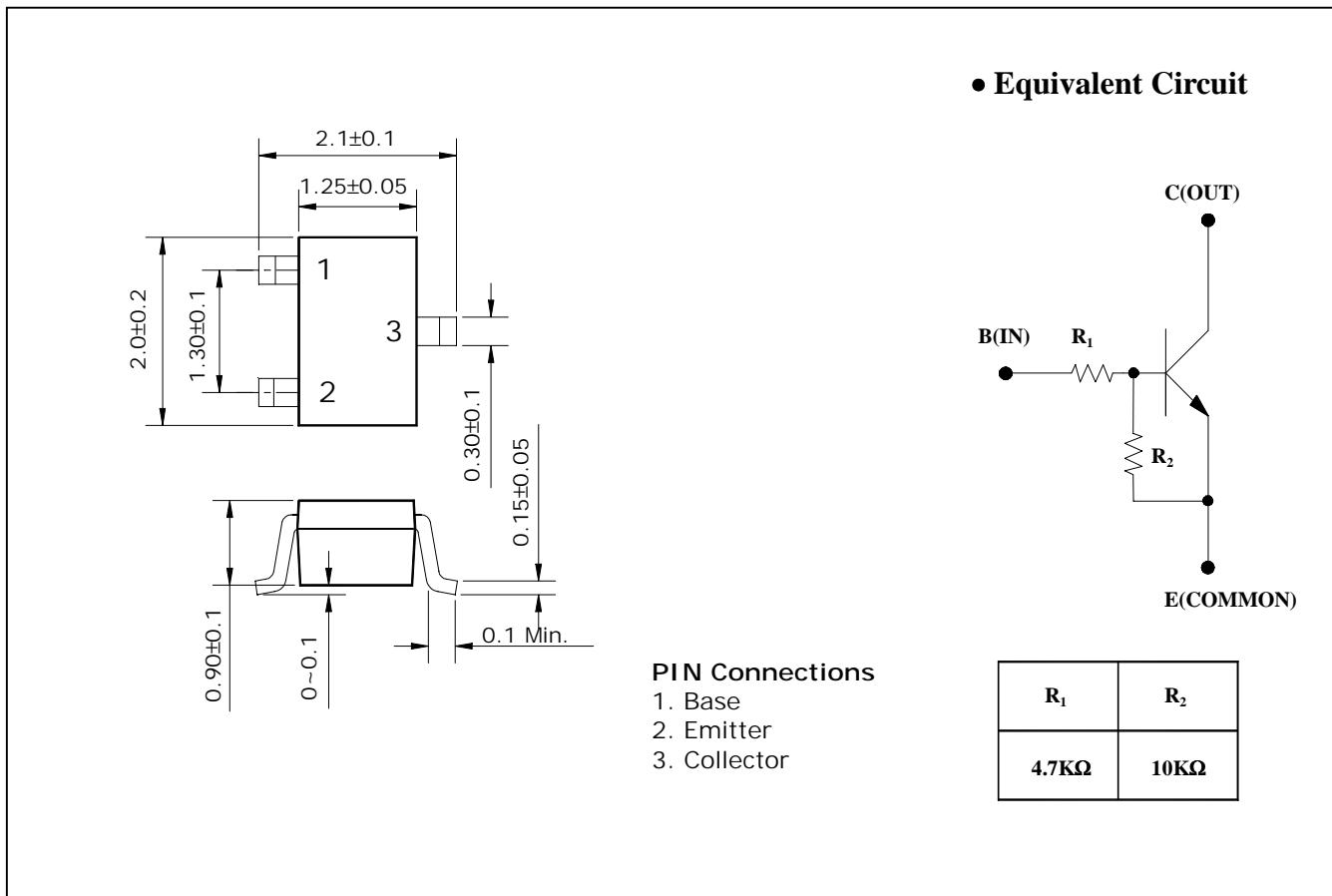
## Features

- 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
SRC1219U	RC	SOT-323

## Outline Dimensions

**unit : mm**


**Absolute maximum ratings**

(Ta=25°C)

<b>Characteristic</b>	<b>Symbol</b>	<b>Ratings</b>	<b>Unit</b>
Out Voltage	V <sub>O</sub>	50	V
Input Voltage	V <sub>I</sub>	20	V
Out Current	I <sub>O</sub>	100	mA
Power Dissipation	P <sub>D</sub>	200	mW
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature	T <sub>STG</sub>	-55 ~ 150	°C

**Electrical Characteristics**

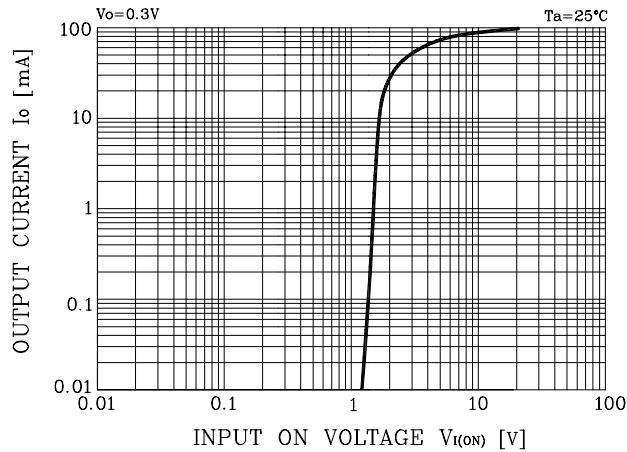
(Ta=25°C)

<b>Characteristic</b>	<b>Symbol</b>	<b>Test Condition</b>	<b>Min.</b>	<b>Typ.</b>	<b>Max.</b>	<b>Unit</b>
Output Cut-off Current	I <sub>O(OFF)</sub>	V <sub>O</sub> =50V, V <sub>I</sub> =0	-	-	500	nA
DC Current Gain	G <sub>I</sub>	V <sub>O</sub> =5V, I <sub>O</sub> =10mA	30	-	-	-
Output Voltage	V <sub>O(ON)</sub>	I <sub>O</sub> =10mA, I <sub>I</sub> =0.5mA	-	0.1	0.3	V
Input Voltage (ON)	V <sub>I(ON)</sub>	V <sub>O</sub> =0.3V, I <sub>O</sub> =20mA	-	1.76	2.5	V
Input Voltage (OFF)	V <sub>I(OFF)</sub>	V <sub>O</sub> =5V, I <sub>O</sub> =0.1mA	0.3	0.82	-	V
Transition Frequency	f <sub>T</sub> <sup>*</sup>	V <sub>O</sub> =10V, I <sub>O</sub> =5mA	-	250	-	MHz
Input Current	I <sub>I</sub>	V <sub>I</sub> =5V	-	-	1.8	mA

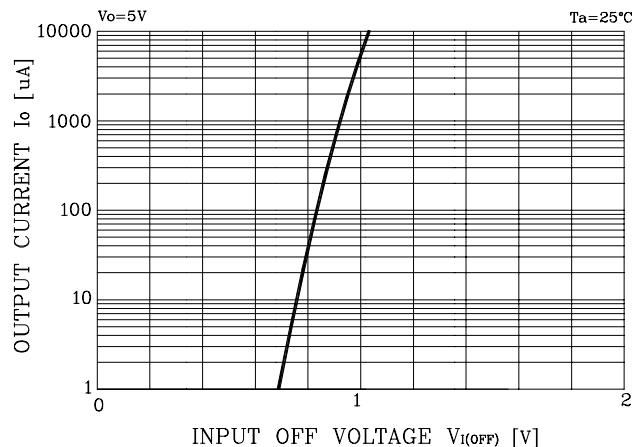
\*: Characteristic of Transistor Only

## Electrical Characteristic Curves

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



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



**Fig. 3  $G_I$  -  $I_o$**

