

Description

- Digital transistor

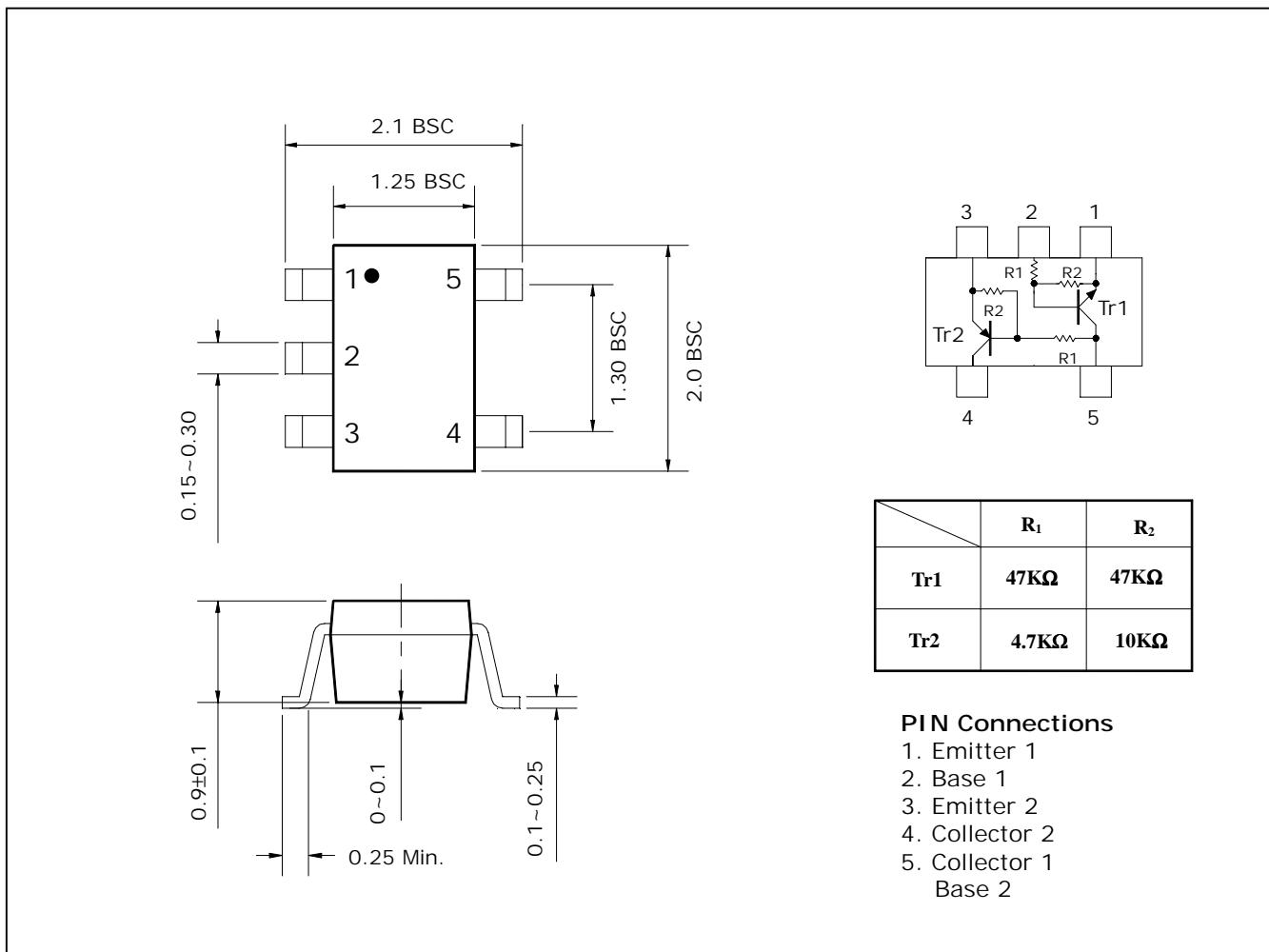
Features

- Both SRC1204 chip and SRA2219 chip in SOT-353 package

Ordering Information

Type NO.	Marking	Package Code
SUT482H	X5	SOT-353

Outline Dimensions

unit : mm


Absolute maximum ratings (Tr1,Tr2)

(Ta=25°C)

Characteristic	Symbol	Ratings		Unit
		Tr1	Tr2	
Out Voltage	V _O	50	-50	V
Input Voltage	V _I	40	-20	V
Out Current	I _O	100	-100	mA
Power Dissipation	P _D	150		mW
Junction Temperature	T _J	150		°C
Storage Temperature	T _{STG}	-55 ~ 150		°C

Electrical Characteristics (Tr1 : NPN)

(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	-	2.8	5.0	V
Input Voltage (OFF)	V _{I(OFF)}	V _O =5V, I _O =0.1mA	1.0	1.2	-	V
Transition Frequency	f _T *	V _O =10V, I _O =5mA	-	200	-	MHz
Input Current	I _I	V _I =5V	-	-	0.18	mA

*: Characteristic of Transistor Only

Electrical Characteristics (Tr2 : PNP)

(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	30	-	-	-
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 =-0.3V, I _O =-20mA	-	-1.76	-2.5	V
Input Voltage (OFF)	V _{I(OFF)}	V _O =-5V, I _O =-0.1mA	-0.3	-0.82	-	V
Transition Frequency	f _T *	V _O =-10V, I _O =-5mA	-	250	-	MHz
Input Current	I _I	V _I =-5V	-	-	-1.8	mA

*: Characteristic of Transistor Only

Electrical Characteristic Curves

Tr1 : NPN

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

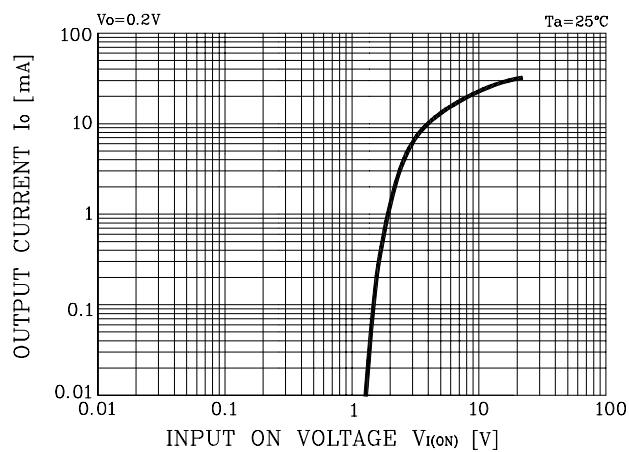


Fig. 2 I_o - $V_{I(OFF)}$

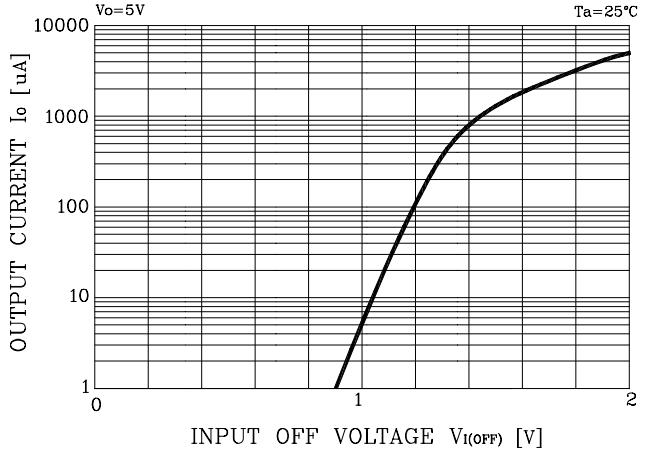
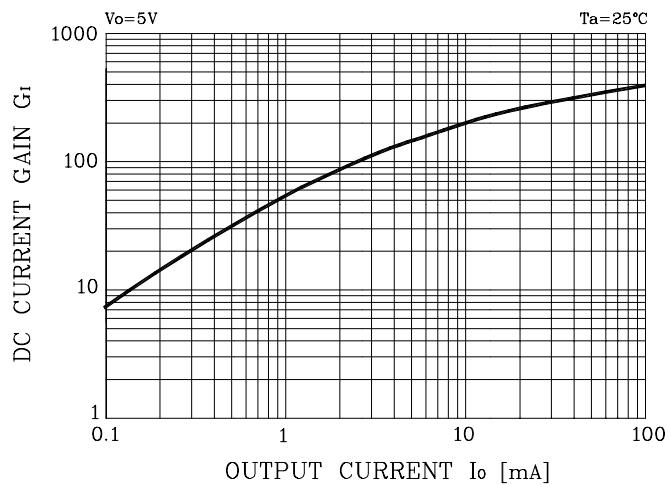


Fig. 3 G_I - I_o



Tr2 : PNP

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

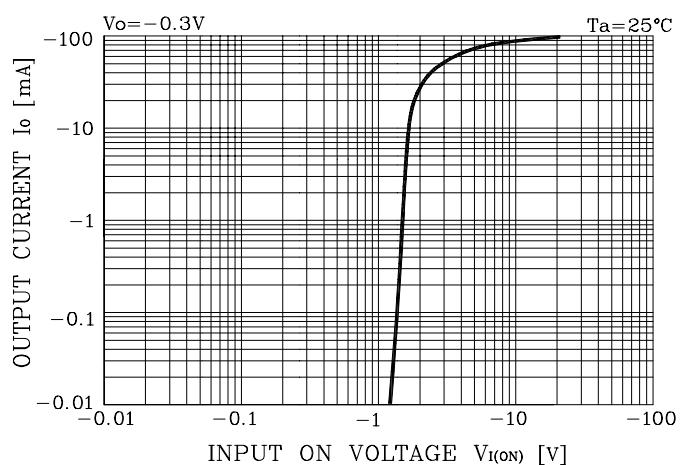


Fig. 2 I_o - $V_{I(OFF)}$

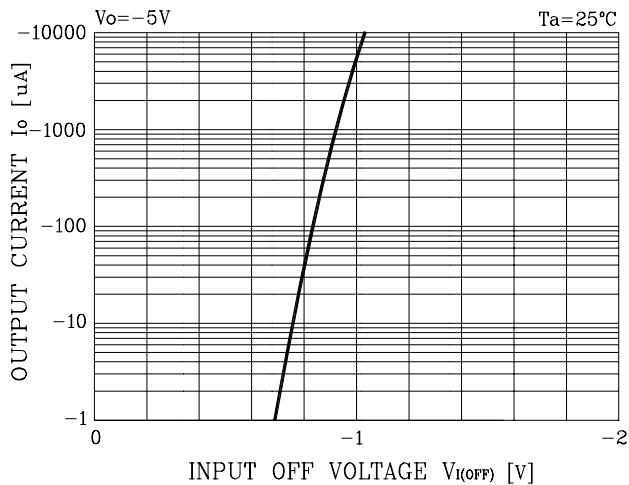


Fig. 3 G_I - I_o

