

Description

- Digital transistor

Features

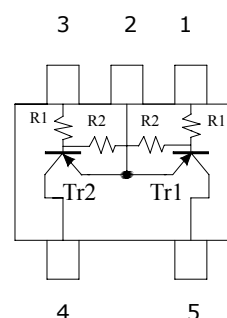
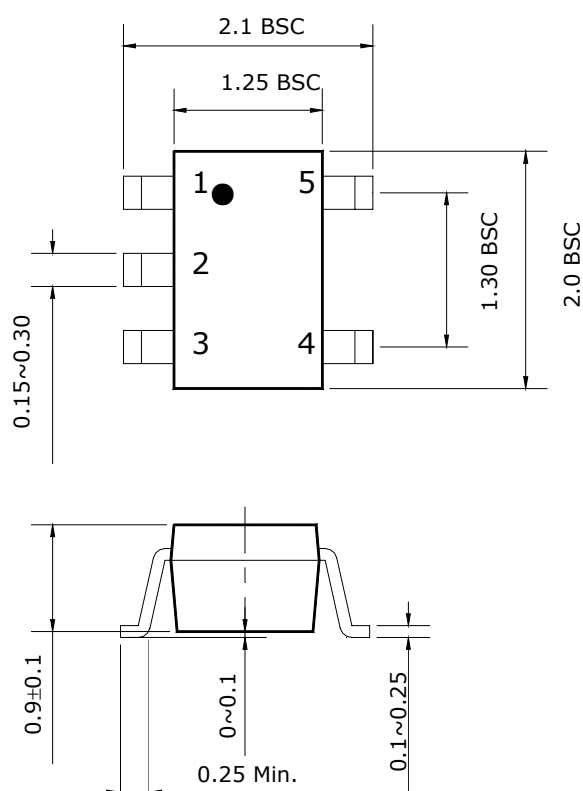
- Two SRA2206 chips in SOT-353 package
- With built-in bias resistors

Ordering Information

Type NO.	Marking	Package Code
SUR529H	29H	SOT-353

Outline Dimensions

unit : mm



	R ₁	R ₂
Tr1	4.7KΩ	47KΩ
Tr2	4.7KΩ	47KΩ

PIN Connections

1. Base 1
2. Emitter 1,2
3. Base 2
4. Collector 2
5. Collector 1

Absolute maximum ratings (Tr1,Tr2 : PNP)

(Ta=25°C)

Characteristic	Symbol	Ratings	Unit
Out Voltage	V_O	-50	V
Input Voltage	V_I	-20	V
Out Current	I_O	-100	mA
Power Dissipation	P_D	625	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55 ~ 150	°C

Electrical Characteristics (Tr1,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	$V_O = -5V, I_O = -10mA$	80	200	-	-
Output Voltage	$V_{O(ON)}$	$I_O = -10mA, I_I = -0.5mA$	-	-0.1	-0.3	V
Input Voltage (ON)	$V_{I(ON)}$	$V_O = -0.2V, I_O = -5mA$	-	-0.9	-1.3	V
Input Voltage (OFF)	$V_{I(OFF)}$	$V_O = -5V, I_O = -0.1mA$	-0.5	-0.65	-	V
Transition Frequency	f_T^*	$V_O = -10V, I_O = -5mA$	-	200	-	MHz
Input Current	I_I	$V_I = -5V$	-	-	-1.8	mA

* : Characteristic of Transistor Only

Electrical Characteristic Curves
[Tr1,Tr2 : PNP]

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

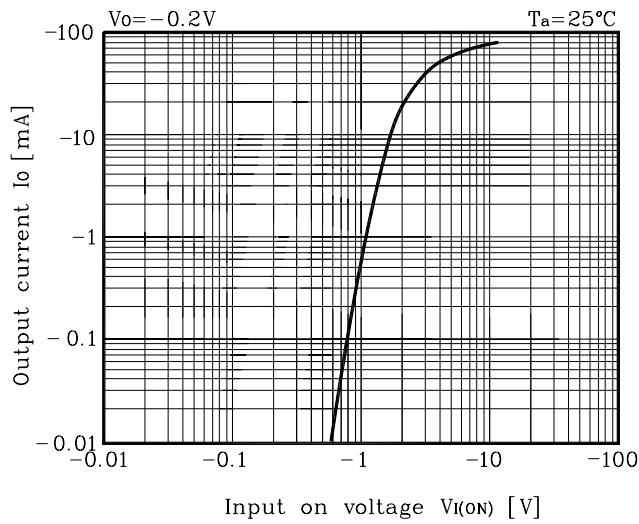


Fig. 2 $I_O - V_{I(OFF)}$

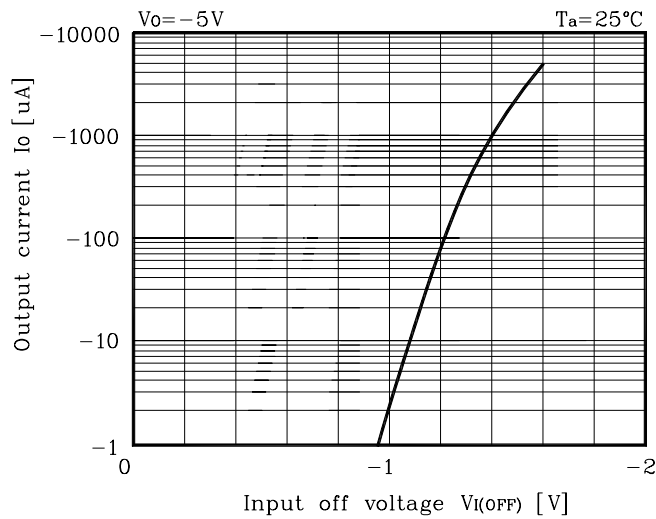


Fig. 3 $G_I - I_O$

