

## Descriptions

- General purpose application
- Two SRA2205 chips in SOT-353 package

## Features

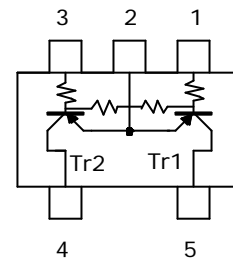
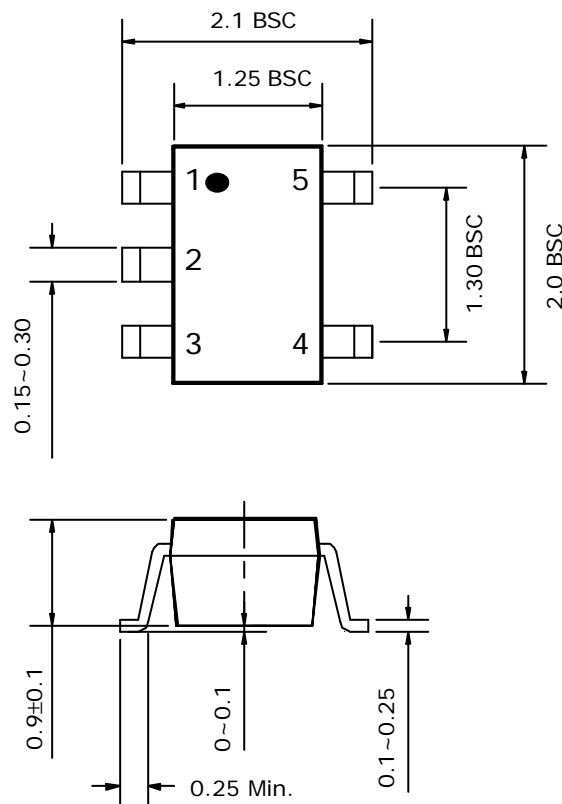
- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process

## Ordering Information

Type NO.	Marking	Package Code
SUR499H	Y1	SOT-353

## Outline Dimensions

unit : mm



	R <sub>1</sub>	R <sub>2</sub>
Tr1	2.2KW	47KW
Tr2	2.2KW	47KW

### PIN Connections

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

**Absolute maximum ratings**

Characteristic	Symbol	Ratings	Unit
Output voltage	$V_o$	-50	V
Input voltage	$V_i$	-12	V
Output current	$I_o$	-100	mA
Power dissipation	$P_D$	150	mW
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 ~ 150	°C

**Electrical Characteristics**

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Output out-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	$V_{O(ON)}$	$I_o = -10m, I_i = -0.5mA$	-	-0.1	-0.3	V
Input voltage(ON)	$V_{I(ON)}$	$V_o = -0.2V, I_o = -5mA$	-	-	-1.1	V
Input voltage(OFF)	$V_{I(OFF)}$	$V_o = -5V, I_o = -0.1mA$	-0.4	-	-	V
Transistor frequency	$f_T^*$	$V_o = -10V, I_o = -5mA$	-	200	-	MHz
Input current	$I_i$	$V_i = -5V$	-	-	-3.6	mA

\* : Characteristic of transistor only

## Electrical Characteristic Curves

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

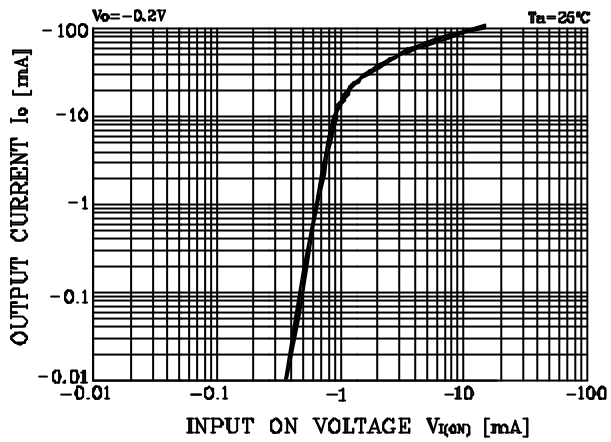


Fig. 2  $I_o - V_{I(OFF)}$

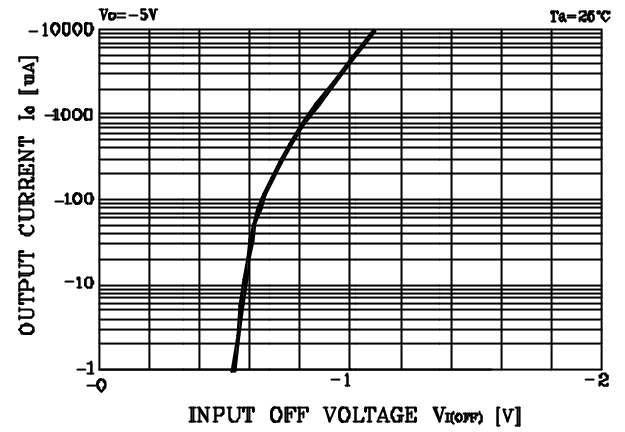


Fig. 3  $G_i - I_o$

