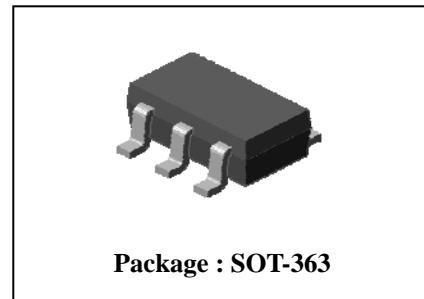


## Description

- Dual chip digital transistor

## Features

- Two SRA2204 chips in SOT-363 package
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process



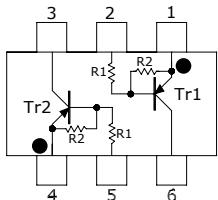
## Ordering Information

Type NO.	Marking	Package Code
SUR547J	XHX□	SOT-363

□ : Year & Week Code

## Equivalent circuit & PIN Connections

### • Equivalent Circuit



	R <sub>1</sub>	R <sub>2</sub>
Tr1	47KΩ	47KΩ
Tr2	47KΩ	47KΩ

### PIN Connections

- COMMON 1
- IN 1
- OUT 2
- COMMON 2
- IN 2
- OUT 1

## Absolute Maximum Ratings [Tr1,Tr2]

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Output voltage	V <sub>O</sub>	-50	V
Input voltage	V <sub>I</sub>	-40, 10	V
Output 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 range	T <sub>stg</sub>	-55 ~ 150	°C

\*: Total rating

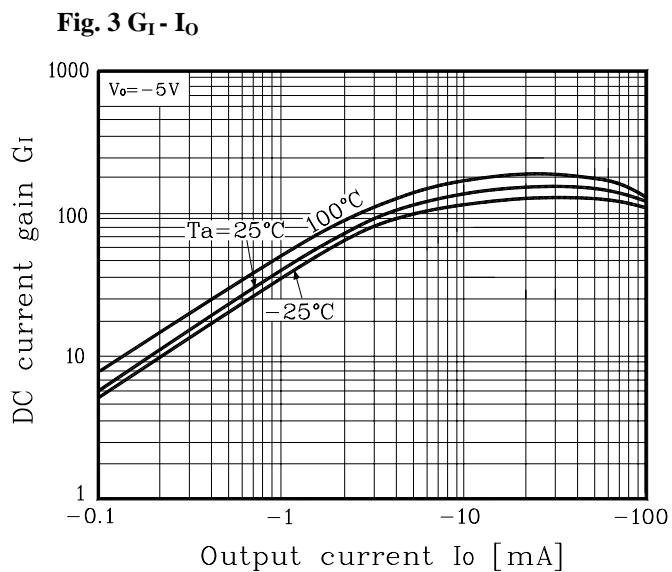
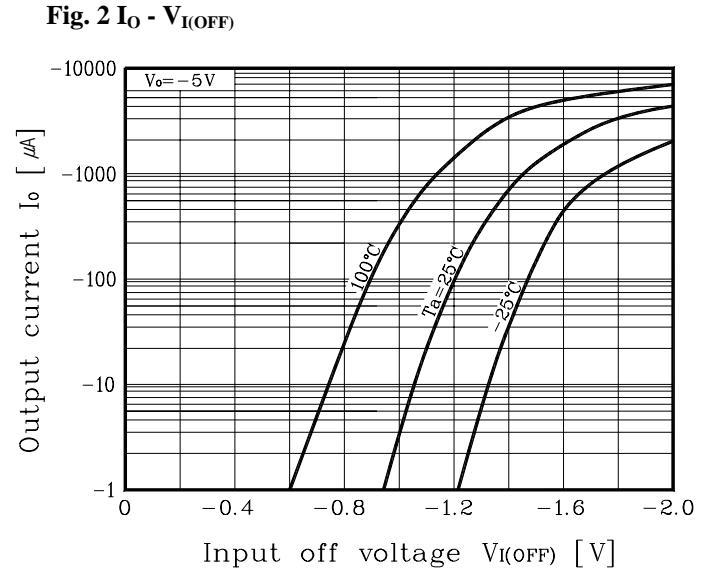
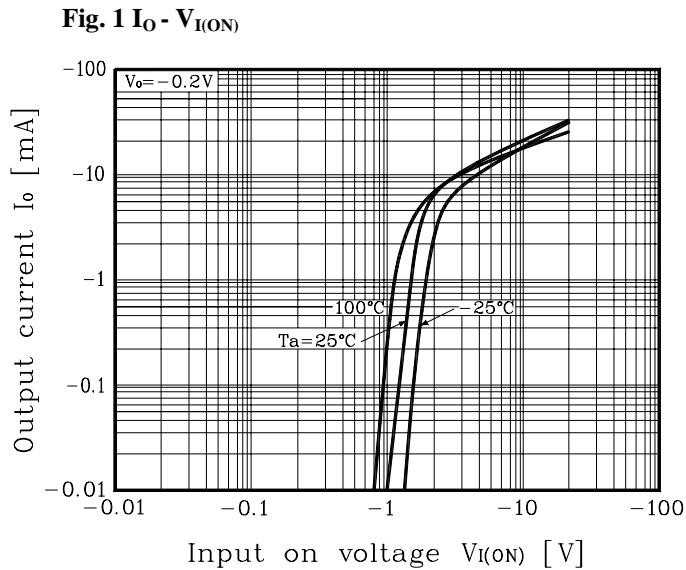
**Electrical Characteristics [Tr1,Tr2]**

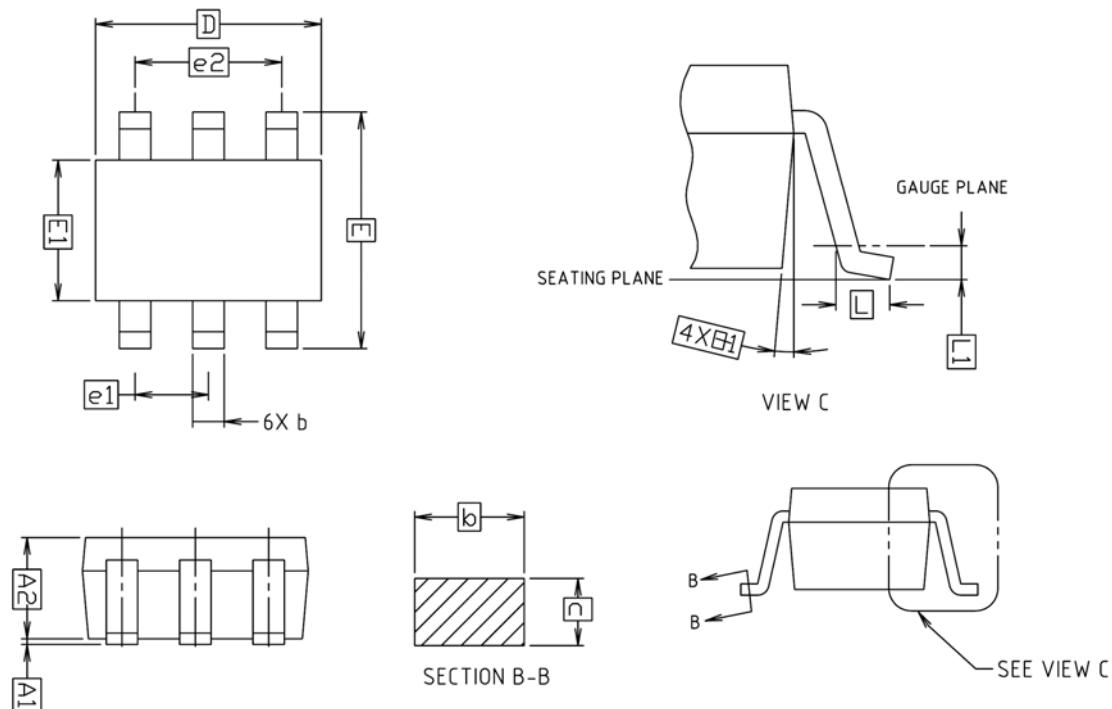
(Ta=25°C)

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	$f_T^*$	$V_O=-10V, I_O=-5mA, f=1MHz$	-	200	-	MHz
Input current	$I_I$	$V_I=-5V, I_O=0$	-	-	-0.18	mA
Input resistor (Input to base)	$R_1$	-	33	47	61	KΩ
Input resistor (Base to common)	$R_2$	-	33	47	61	KΩ

\*: Characteristic of transistor only

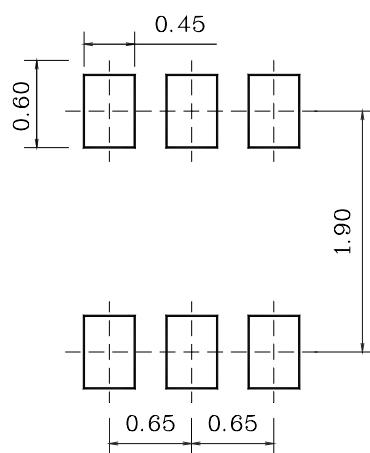
## Electrical Characteristic Curves [ Tr1,Tr2]



**Outline Dimension**

SYMBOL	MILLIMETERS			NOTE
	MINIMUM	NOMINAL	MAXIMUM	
A1	0.00	—	0.10	
A2	0.90	0.95	1.00	
b	0.25	—	0.40	
c	0.10	—	0.25	
D	1.90	2.00	2.10	
E	1.95	2.10	2.25	
E1	1.15	1.25	1.35	
e1	0.65 BSC			
e2	1.30 BSC			
L	0.25	—	—	
L1	0.15 BSC			

\* Recommend PCB solder land [Unit: mm]



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