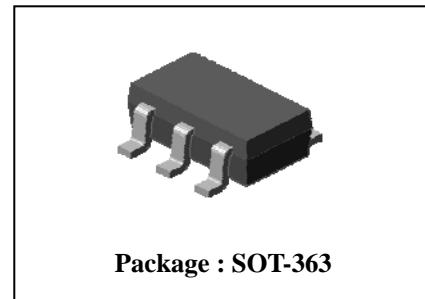


Description

- Dual chip digital transistor

Features

- Two SRA2211 chips in SOT-363 package
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process



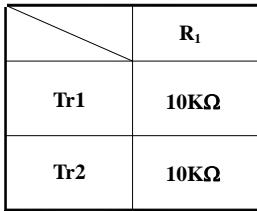
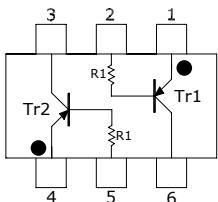
Ordering Information

Type NO.	Marking	Package Code
SUR549J	SHS□	SOT-363

□ : Year & Week Code

Equivalent circuit & PIN Connections

• Equivalent Circuit



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 _O	-50	V
Input voltage	V _I	-30, 5	V
Output current	I _O	-100	mA
Power dissipation	P _D *	200	mW
Junction temperature	T _J	150	°C
Storage temperature range	T _{stg}	-55 ~ 150	°C

*: Total rating

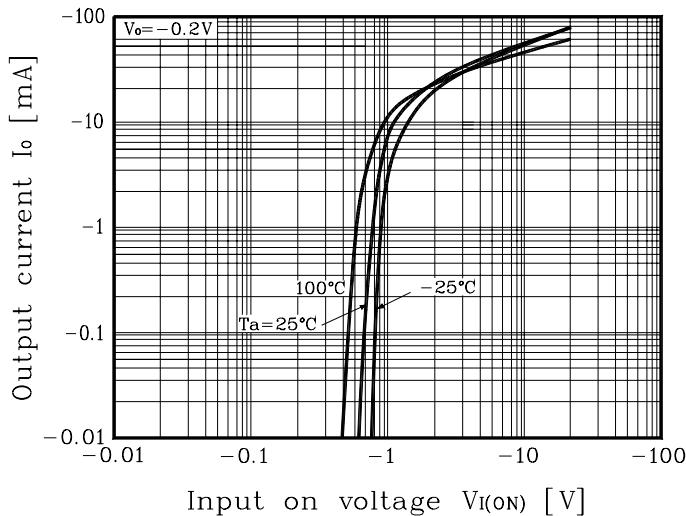
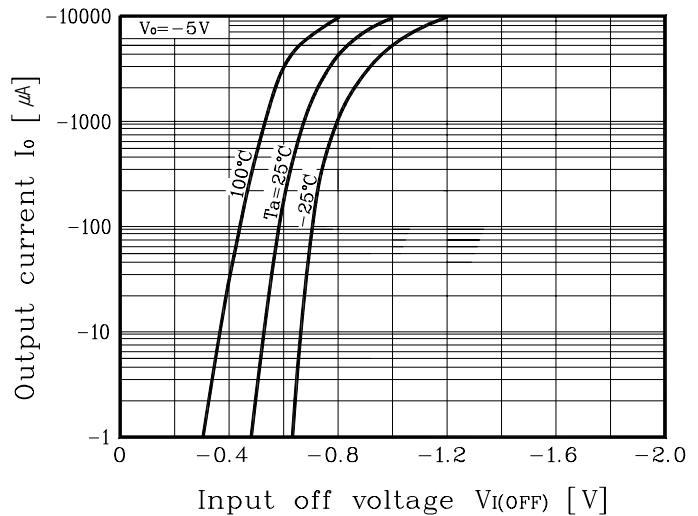
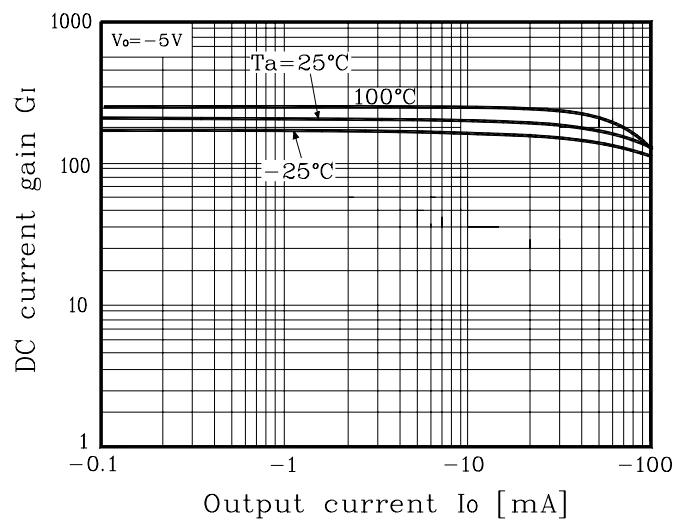
Electrical Characteristics [Tr1,Tr2]

(Ta=25°C)

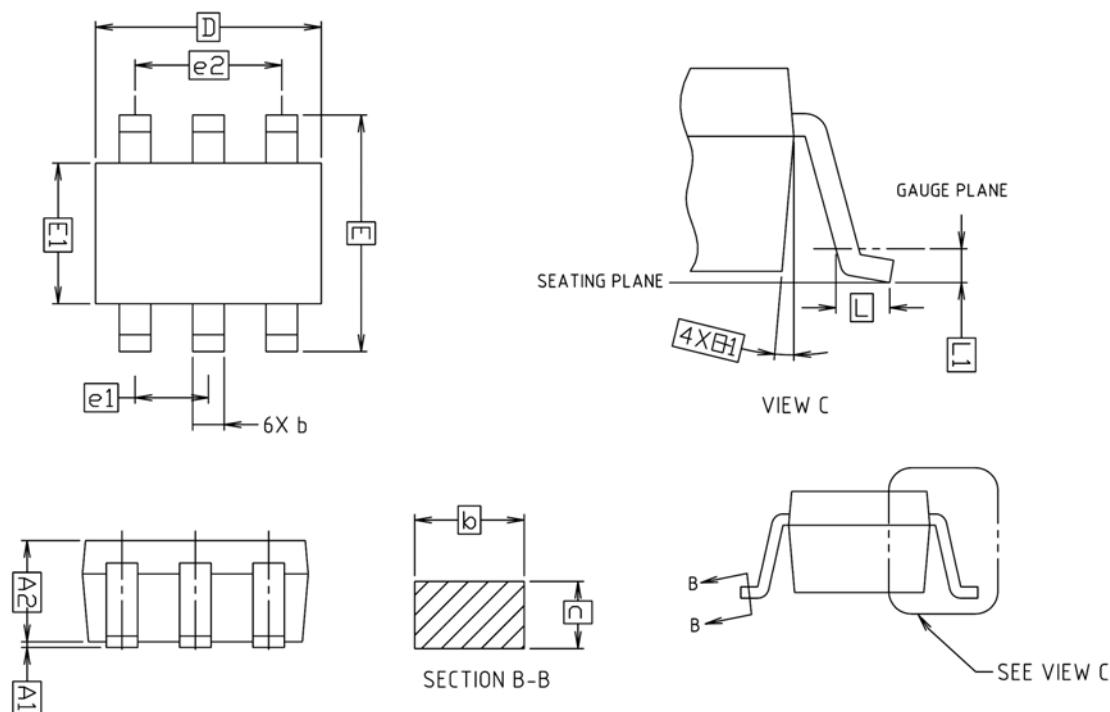
Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Output cut-off current	$I_{O(OFF)}$	$V_O=-50V, V_I=0$	-	-	-500	nA
DC current gain	G_I	$V_O=-5V, I_O=-10mA$	120	-	-	-
Output voltage	$V_{O(ON)}$	$I_O=-10mA, I_I=-0.5mA$	-	-0.1	-0.3	V
Input voltage (ON)	$V_{I(ON)}$	$V_O=-0.2V, I_O=-5mA$	-	-0.9	-1.4	V
Input voltage (OFF)	$V_{I(OFF)}$	$V_O=-5V, I_O=-0.1mA$	-0.3	-0.55	-	V
Transition frequency	f_T^*	$V_O=-10V, I_O=-5mA, f=1MHz$	-	200	-	MHz
Input current	I_I	$V_I=-5V, I_O=0$	-	-	-0.88	mA
Input resistor (Input to base)	R_I	-	7	10	13	KΩ

*: Characteristic of transistor only

Electrical Characteristic Curves [Tr1,Tr2]

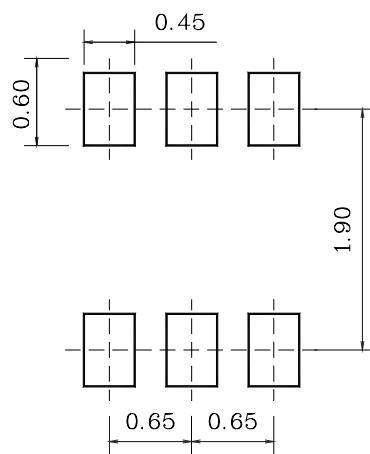
Fig. 1 I_O - $V_{I(ON)}$ **Fig. 2** I_O - $V_{I(OFF)}$ **Fig. 3** G_I - I_O 

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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