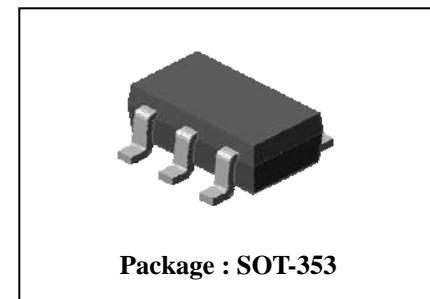


## Description

- Dual chip digital transistor

## Features

- Two SRC1211 chips in SOT-353 package
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process



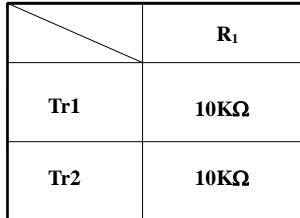
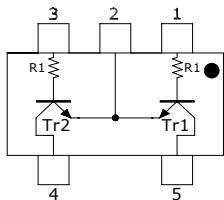
## Ordering Information

Type NO.	Marking	Package Code
SUR522H	22H□	SOT-353

□ : Year & Week Code

## Equivalent circuit & PIN Connections

### • Equivalent Circuit



### PIN Connections

1. IN 1
2. COMMON 1,2
3. IN 2
4. OUT 2
5. 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

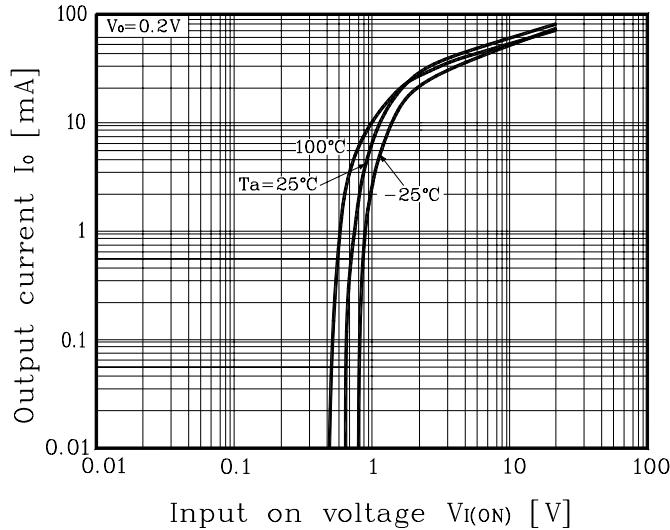
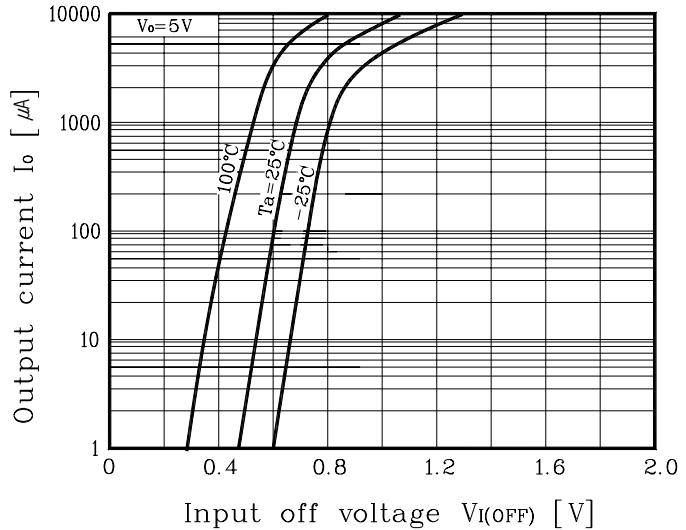
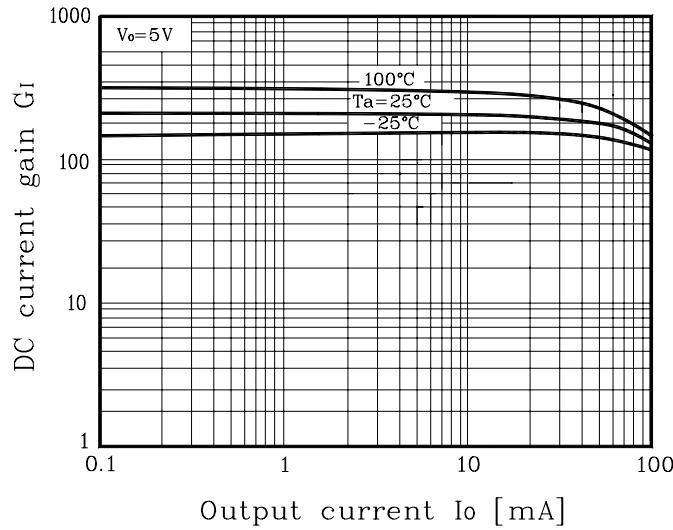
**Electrical Characteristics [Tr1,Tr2]**

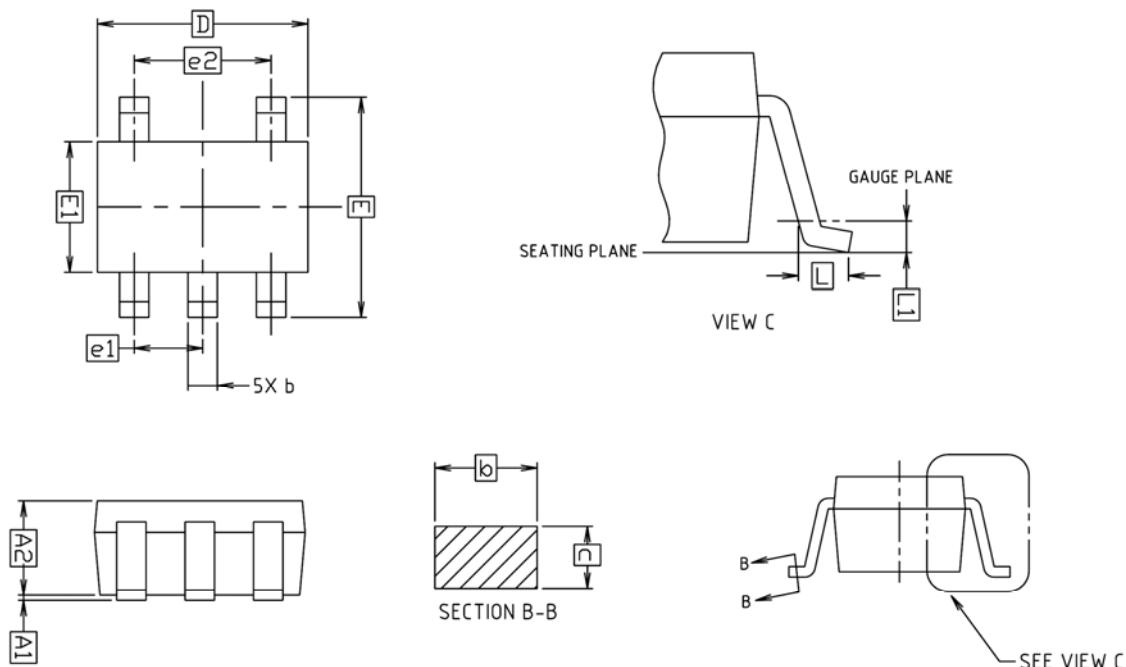
(Ta=25°C)

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

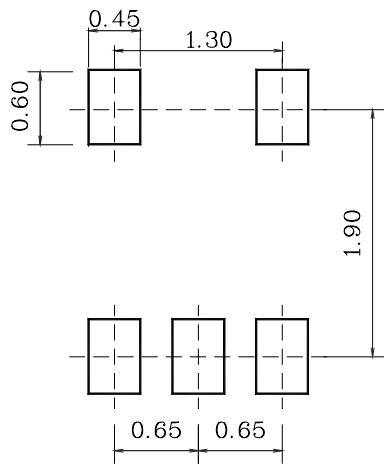
## Electrical Characteristic Curves [Tr1,Tr2]

**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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