

Description

- Digital transistor

Features

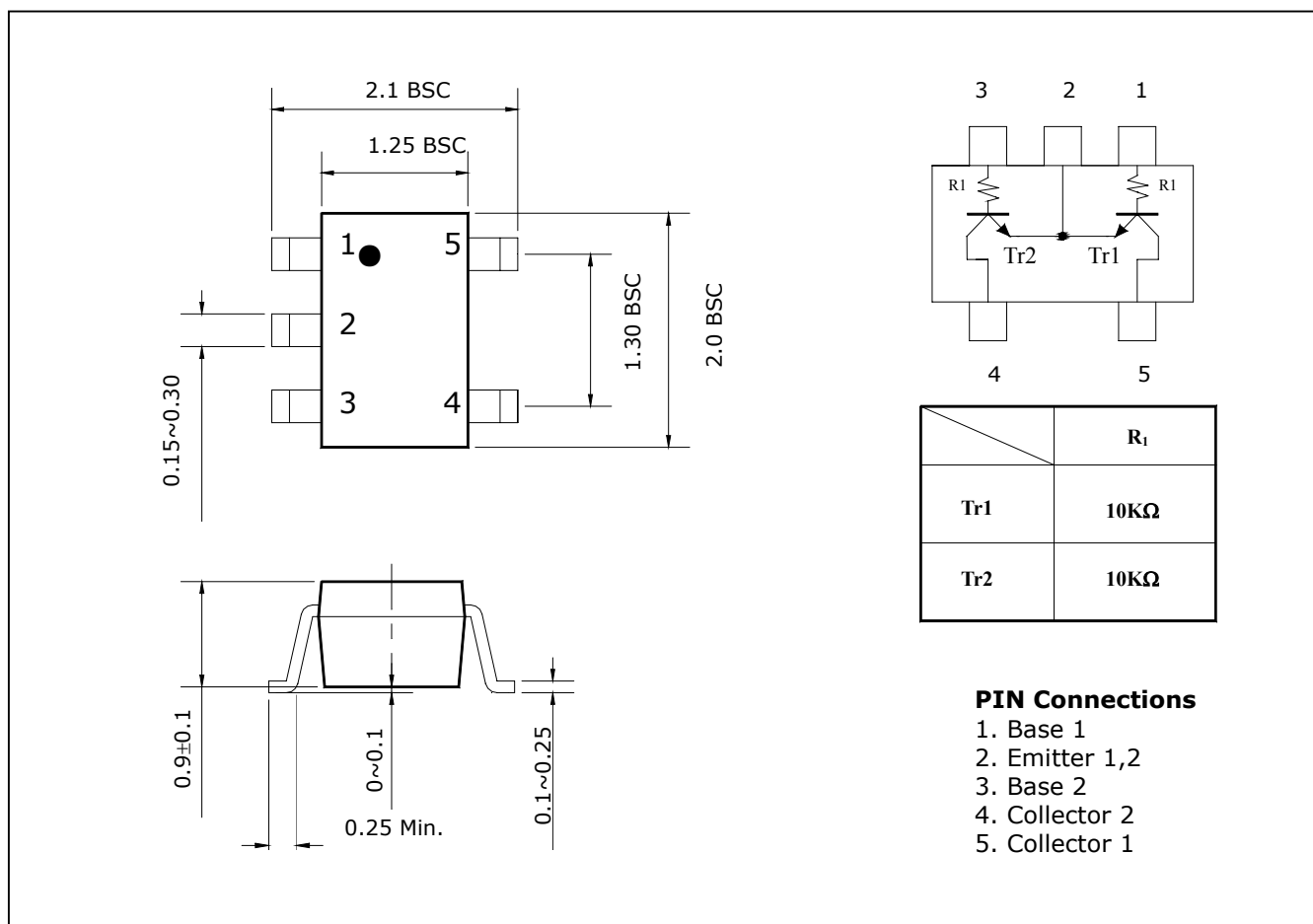
- Two SRC1211 chips in SOT-353 package
- With built-in bias resistors

Ordering Information

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

Outline Dimensions

unit : mm



Absolute maximum ratings [Tr1, Tr2 : NPN]**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	150	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55 ~ 150	°C

Electrical Characteristics [Tr1,Tr2:NPN]**(Ta=25°C)**

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector Cut-off Current	I_{CBO}	$V_{CB}=50V, I_E=0$	-	-	500	nA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V, I_C=0$	-	-	500	nA
DC Current Gain	h_{FE}	$V_{CE}=5V, I_C=1mA$	120	-	-	-
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C=10mA, I_B=0.5mA$	-	0.1	0.3	V
Transition Frequency	f_T^*	$V_{CE}=10V, I_C=5mA$	-	250	-	MHz
Input Resistance	R_1	-	-	10	-	KΩ

* : Characteristic of Transistor Only

Electrical Characteristic Curves
[Tr1,Tr2 :NPN]

Fig. 1 $h_{FE} - I_C$

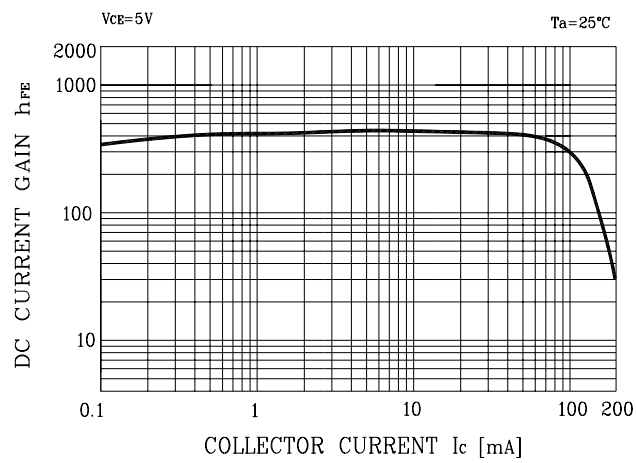


Fig. 2 $V_{CE(sat)} - I_C$

