

Descriptions

- Digital transistor

Features

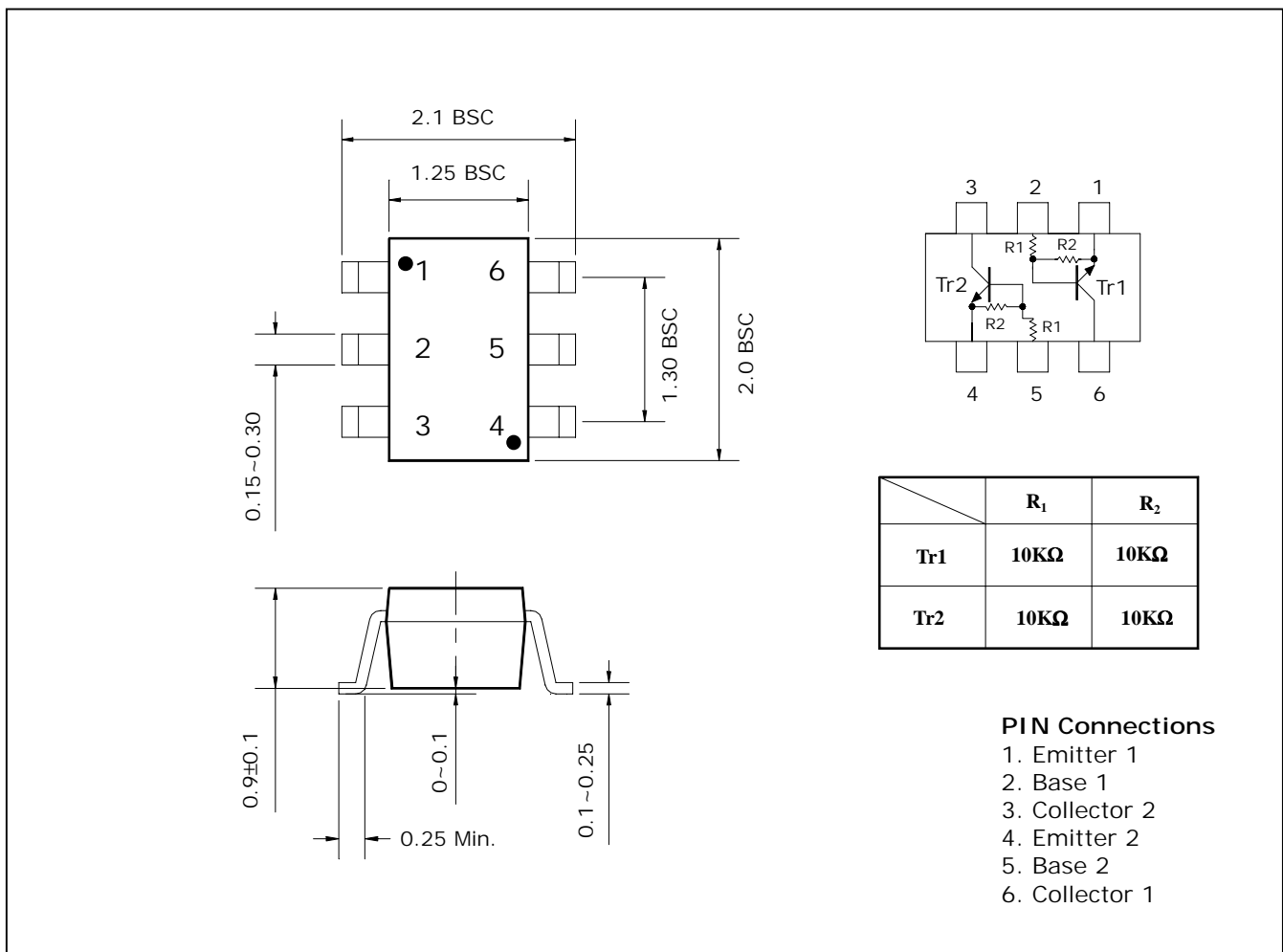
- Two SRC1202 chips in SOT-363 package
- With built-in bias resistors

Ordering Information

Type NO.	Marking	Package Code
SUR490J	OO	SOT-363

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	30	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
Output Cut-off Current	$I_{O(OFF)}$	$V_o=50V, V_i=0$	-	-	500	nA
DC Current Gain	G_i	$V_o=5V, I_o=10mA$	50	80	-	-
Output Voltage	$V_{O(ON)}$	$I_o=10mA, I_i=0.5mA$	-	0.1	0.3	V
Input Voltage (ON)	$V_{I(ON)}$	$V_o=0.2V, I_o=5mA$	-	1.8	2.4	V
Input Voltage (OFF)	$V_{I(OFF)}$	$V_o=5V, I_o=0.1mA$	1.0	1.2	-	V
Transition Frequency	f_T^*	$V_o=10V, I_o=5mA$	-	200	-	MHz
Input Current	I_i	$V_i=5V$	-	-	0.88	mA

* : Characteristic of Transistor Only

Electrical Characteristic Curves

Tr1, Tr2 : NPN

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

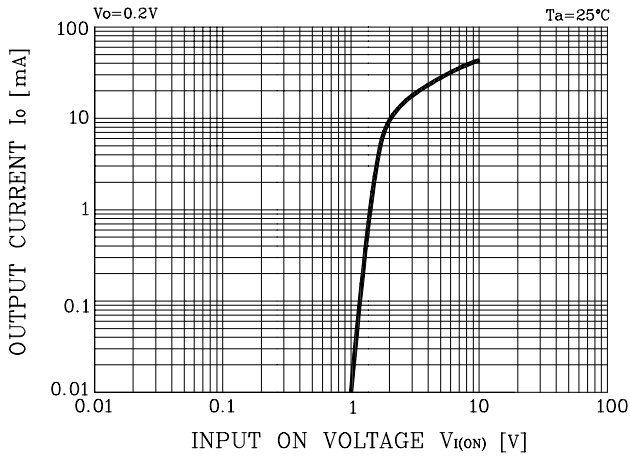


Fig. 2 $I_o - V_{I(OFF)}$

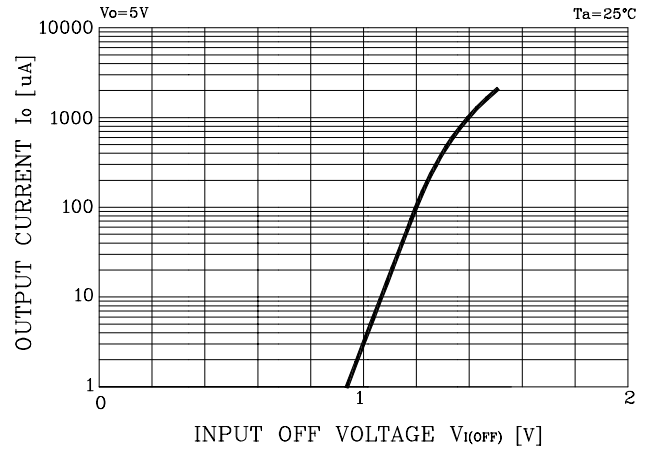


Fig. 3 $G_I - I_o$

