

Descriptions

- Digital transistor

Features

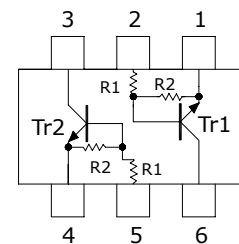
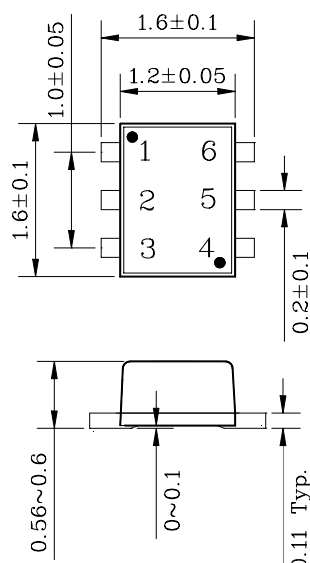
- Two SRC1207 chips in SOT-563F package
- With built-in bias resistors

Ordering Information

Type NO.	Marking	Package Code
SUR542EF	SK	SOT-563F

Outline Dimensions

unit : mm



	R ₁	R ₂
Tr1	10KΩ	47KΩ
Tr2	10KΩ	47KΩ

PIN Connections

1. Emitter 1
2. Base 1
3. Collector 2
4. Emitter 2
5. Base 2
6. Collector 1

Absolute maximum ratings (Tr1, Tr2)

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	100	mW
Junction Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-55 ~ 150	°C

Electrical Characteristics(Tr1, Tr2 : PNP)

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	150	-	-
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	V
Input Voltage (OFF)	V _{I(OFF)}	V _O =5V, I _O =0.1mA	0.5	-	-	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 $I_O - V_{I(ON)}$

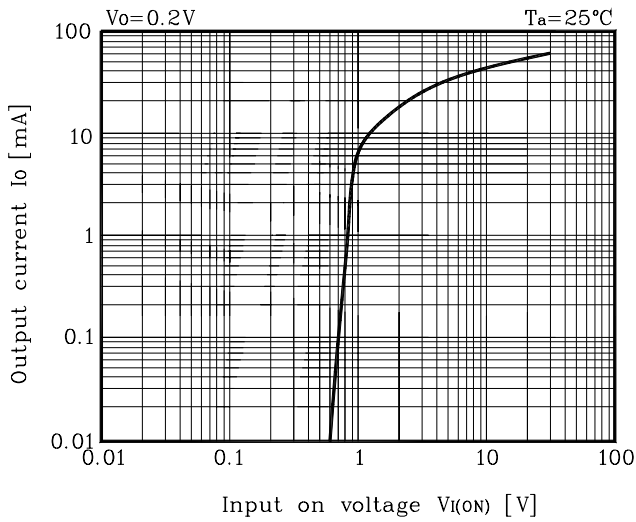


Fig. 2 $I_O - V_{I(OFF)}$

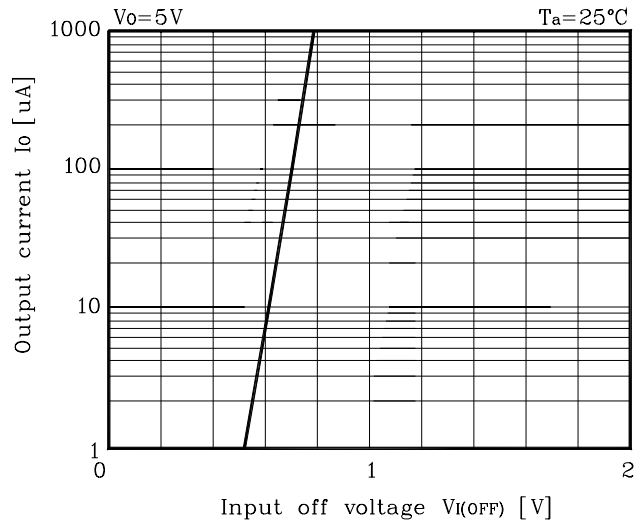
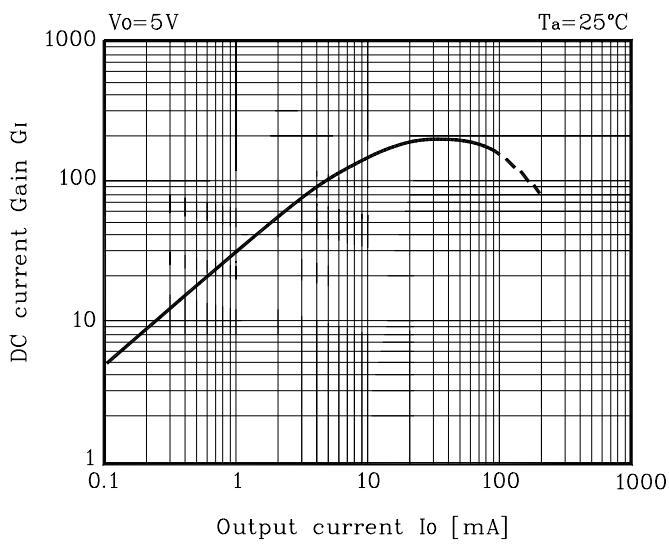


Fig. 3 $G_I - I_O$



These AUK products are intended for usage in general electronic equipments(Office and communication equipment, measuring equipment, domestic electrification, etc.).

Please make sure that you consult with us before you use these AUK products in equipments which require high quality and/or reliability, and in equipments which could have major impact to the welfare of human life(atomic energy control, airplane, spaceship, traffic signal, combustion central, all types of safety device, etc.).

AUK cannot accept liability to any damage which may occur in case these AUK products were used in the mentioned equipments without prior consultation with AUK.