

SRC1206K

NPN Silicon Transistor

Descriptions

- Switching application
- Interface circuit and driver circuit application

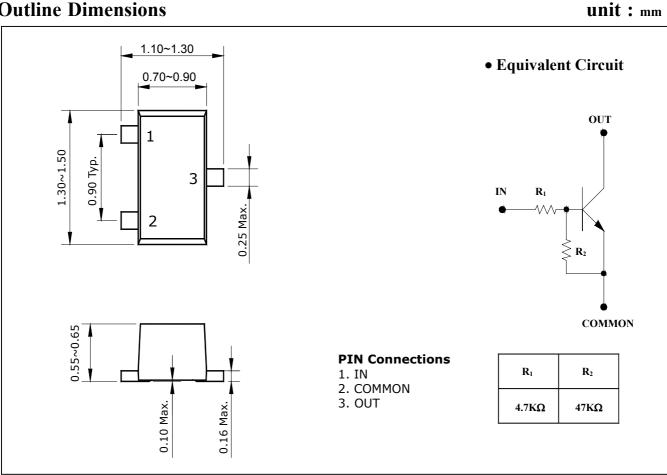
Features

- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process
- High packing density

Ordering Information

Type NO.	Marking	Package Code	
SRC1206K	R6	SOT-623F	

Outline Dimensions



KSR-4068-001

Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Out voltage	Vo	50	V
Input voltage	V_{I}	20,-5	V
Out current	I_{O}	100	mA
Power dissipation	P_D	100	mW
Junction temperature	T ₁	150	°C
Storage temperature	T_{stg}	-55 ~ 150	°C

Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Output cut-off current	I _{O(OFF)}	$V_0 = 50V, V_I = 0$	-	-	500	nA
DC current gain	G_{I}	$V_O=5V$, $I_O=10$ mA	80	200	-	-
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	1.3	V
Input voltage (OFF)	$V_{I(OFF)}$	$V_0 = 5V$, $I_0 = 0.1$ mA	0.5	0.65	-	V
Transition frequency	f_T^*	V_0 =10V, I_0 =5mAm f=1MHz	-	200	-	MHz
Input current	$I_{\rm I}$	$V_I=5V$, $I_O=0$	-	-	1.8	mA
Input resistor (Input to base)	R ₁	-	3.3	4.7	6.1	K Ω
Input resistor (Base to common)	R ₂	-	33	47	61	K Ω

^{* :} Characteristic of transistor only

KSR-4068-001 2

Electrical Characteristic Curves

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

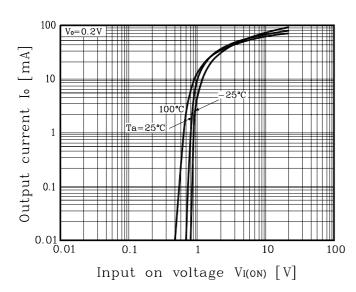


Fig. 2 I_O - $V_{I(OFF)}$

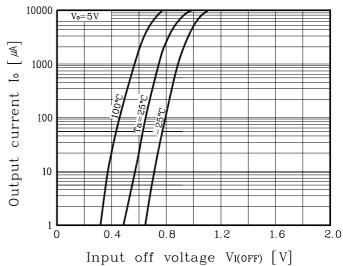
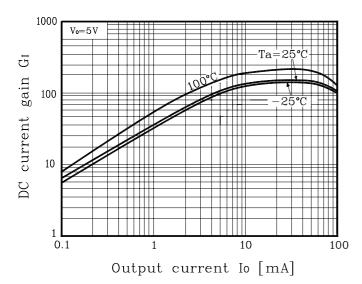


Fig. 3 G_I - I_O



The AUK Corp. products are intended for the use as components in general electronic equipment (Office and communication equipment, measuring equipment, home appliance, etc.).

Please make sure that you consult with us before you use these AUK Corp. 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, transportation, combustion control, all types of safety device, etc.). AUK Corp. cannot accept liability to any damage which may occur in case these AUK Corp. products were used in the mentioned equipments without prior consultation with AUK Corp..

Specifications mentioned in this publication are subject to change without notice.

KSR-4068-001 3