

SRC1207K

NPN Silicon Transistor

Descriptions

- Switching application
- Interface circuit and driver circuit application

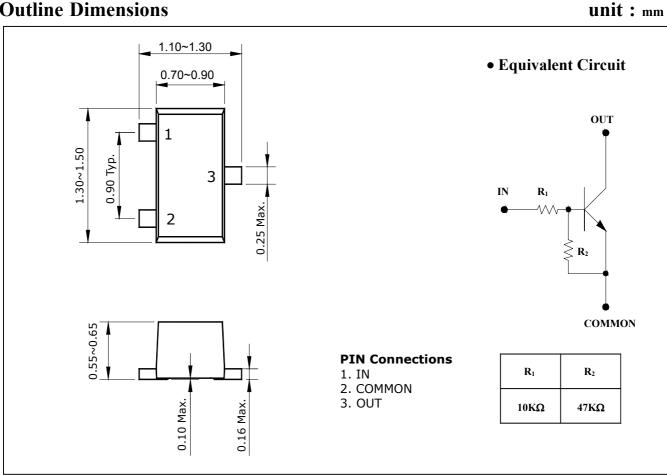
Features

- 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
SRC1207K	R7	SOT-623F

Outline Dimensions



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Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Output voltage	Vo	50	V
Input voltage	V _I	30,-6	V
Output current	I_{O}	100	mA
Power dissipation	P_{D}	100	mW
Junction temperature	T ₁	150	°C
Storage temperature range	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 _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_0 =10V, I_0 =5mA, f=1MHz	-	200	-	MHz
Input current	$I_{\rm I}$	$V_I=5V$, $I_O=0$	-	-	0.88	mA
Input resistor (Input to base)	R_1	-	7	10	13	K Ω
Input resistor (Base to common)	R ₂	-	33	47	61	K Ω

^{* :} Characteristic of transistor only

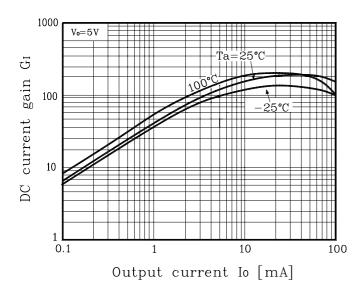
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Electrical Characteristic Curves

Input on voltage Vi(on) [V]

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

Fig. 3 G_I - I_O



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