

Descriptions

- Switching application
- Interface circuit and driver circuit application

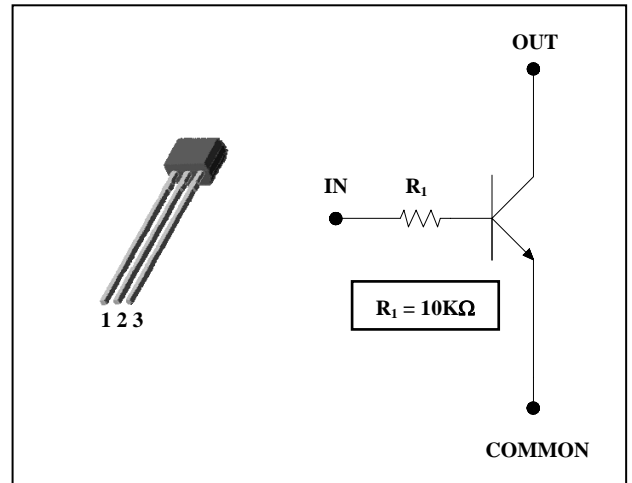
Features

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

Ordering Information

Type NO.	Marking	Package Code
SRC1211M	1211	T0-92M

PIN Connection



Absolute Maximum Ratings

($T_a=25^\circ\text{C}$)

Characteristic	Symbol	Rating	Unit
Output voltage	V_o	50	V
Input voltage	V_i	30, -5	V
Output current	I_o	100	mA
Power dissipation	P_D	400	mW
Junction temperature	T_J	150	$^\circ\text{C}$
Storage temperature range	T_{stg}	-55 ~ 150	$^\circ\text{C}$

Electrical Characteristics

($T_a=25^\circ\text{C}$)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Output cut-off current	$I_{O(OFF)}$	$V_o=50\text{V}, V_i=0$	-	-	500	nA
DC current gain	G_I	$V_o=5\text{V}, I_o=10\text{mA}$	120	-	-	-
Output voltage	$V_{O(ON)}$	$I_o=10\text{mA}, I_i=0.5\text{mA}$	-	0.1	0.3	V
Input voltage (ON)	$V_{I(ON)}$	$V_o=0.2\text{V}, I_o=5\text{mA}$	-	0.9	1.4	V
Input voltage (OFF)	$V_{I(OFF)}$	$V_o=5\text{V}, I_o=0.1\text{mA}$	0.3	0.55	-	V
Transition frequency	f_T^*	$V_o=10\text{V}, I_o=5\text{mA}, f=1\text{MHz}$	-	200	-	MHz
Input current	I_i	$V_i=5\text{V}, I_o=0$	-	-	0.88	mA
Input resistor (Input to base)	R_1	-	7	10	13	$\text{K}\Omega$

* : Characteristic of transistor only

Electrical Characteristic Curves

Fig. 1 $P_D - T_a$

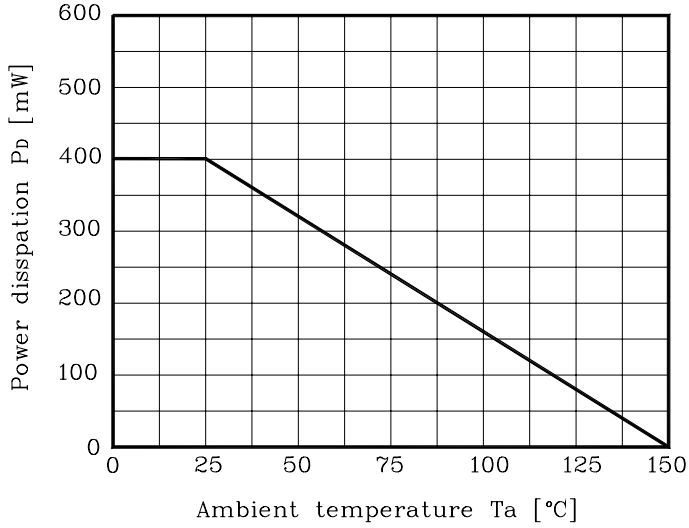


Fig. 2 $I_O - V_{I(ON)}$

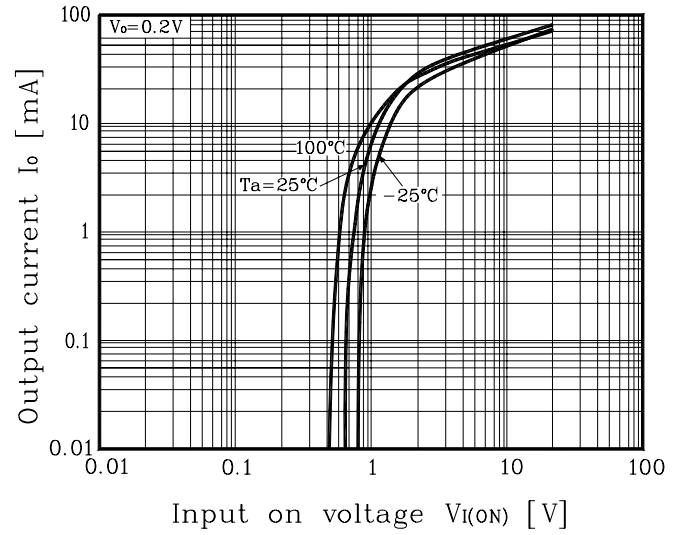


Fig. 3 $I_O - V_{I(OFF)}$

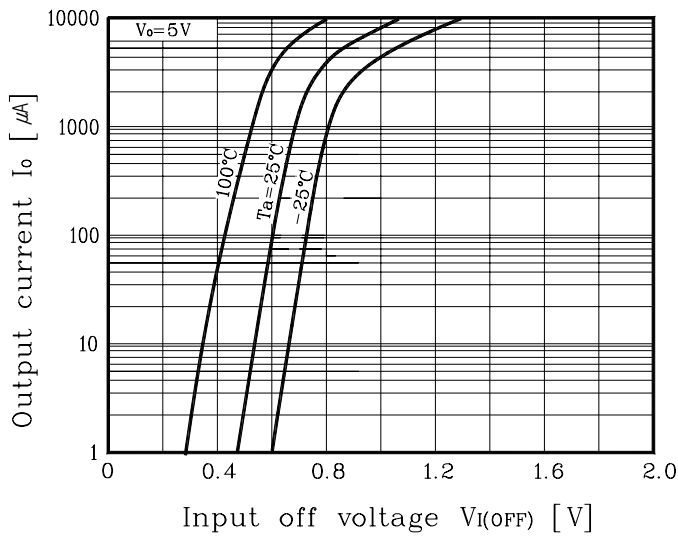
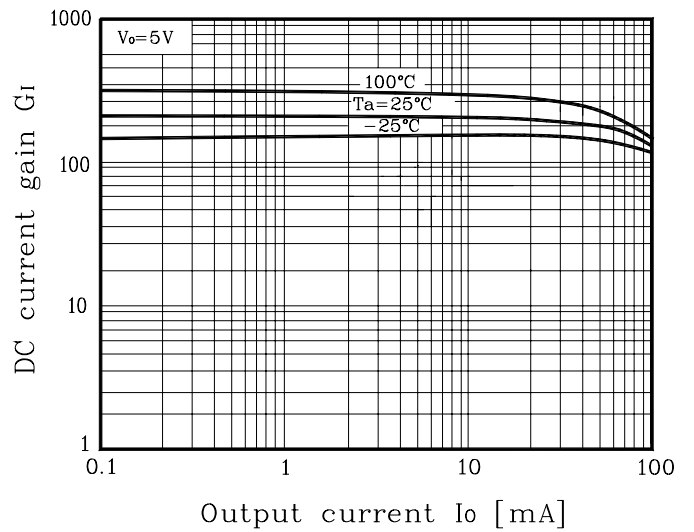
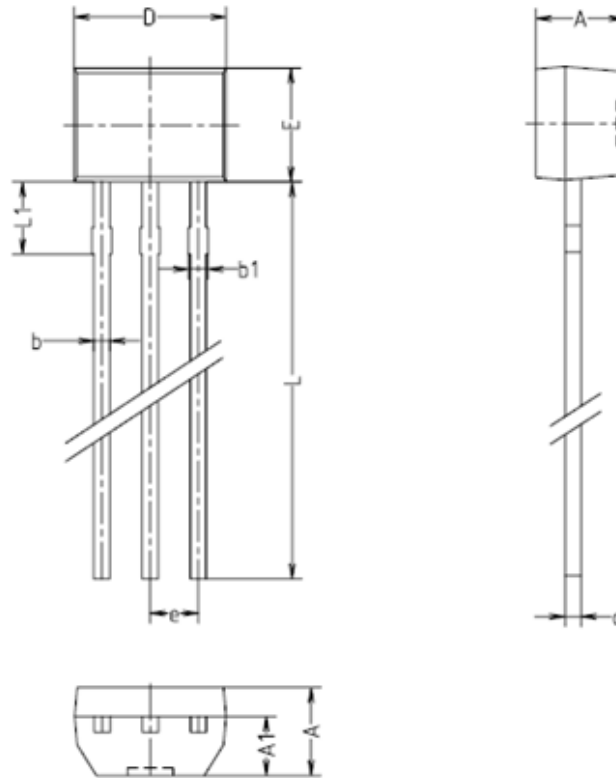


Fig. 4 $G_I - I_O$



Outline Dimension



SYMBOL	TQ-92M		
	MINIMUM	NOMINAL	MAXIMUM
A	2.25	2.30	2.35
A1	1.50	1.55	1.60
b	0.40	0.42	0.44
b1	0.40	-	0.50
c	0.40	0.42	0.44
D	3.93	4.00	4.07
E	2.93	3.00	3.07
e	1.17	1.27	1.37
L	14.30	14.50	14.70
L1	2.05	2.15	2.25

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