

Descriptions

- Switching application
- Interface circuit and driver circuit application

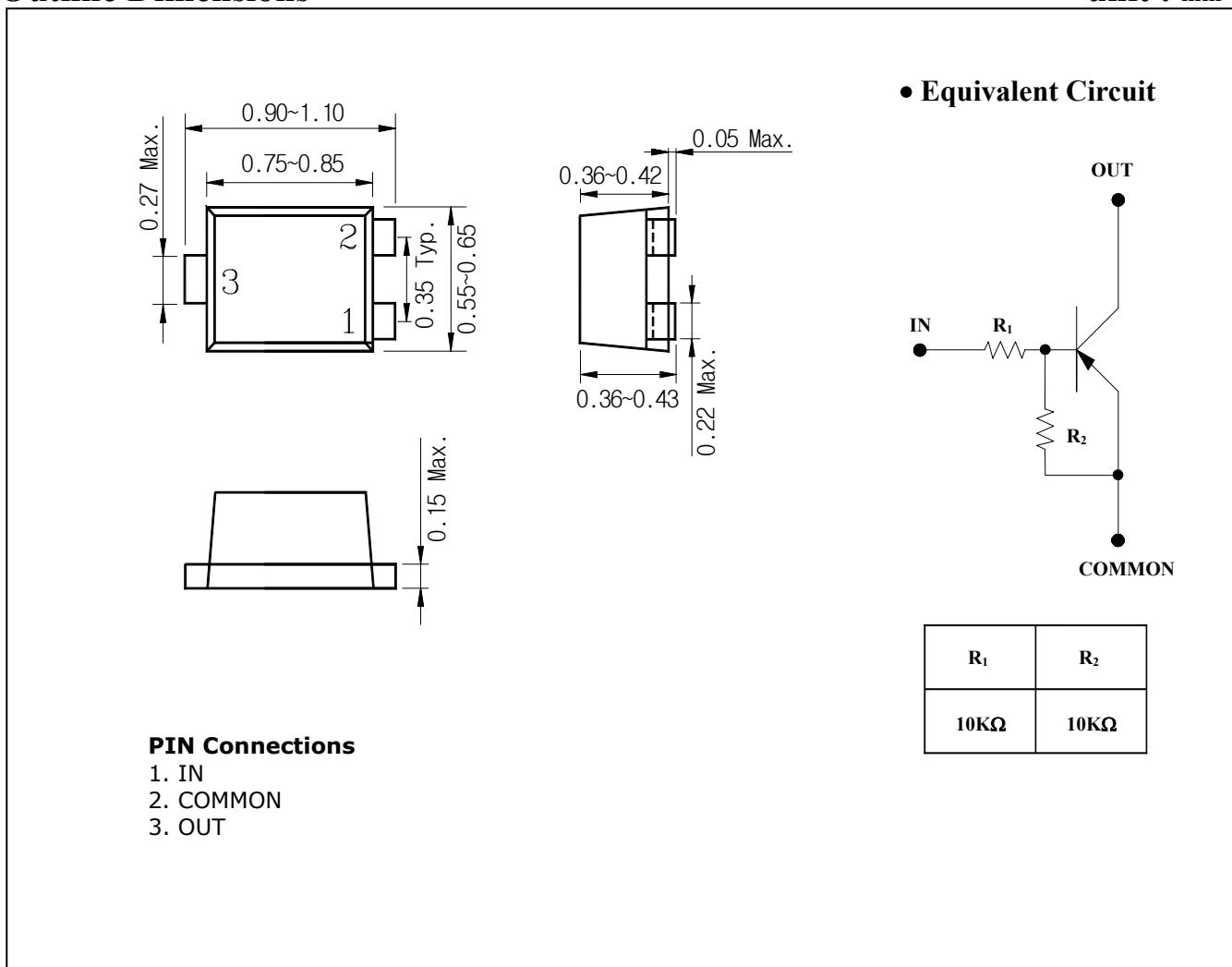
Features

- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process
- Complementary pair with NT353

Ordering Information

Type NO.	Marking	Package Code
NT354	M	SOT-923

Outline Dimensions

unit : mm


Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Output voltage	V _O	-20	V
Input voltage	V _I	-15, 10	V
Output current	I _O	-50	mA
Power dissipation	P _D	50	mW
Junction temperature	T _J	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 =-20V, V _I =0	-	-	-500	nA
DC current gain	G _I	V _O =-5V, I _O =-10mA	60	-	-	-
Output voltage	V _{O(ON)}	I _O =-5mA, I _I =-0.25mA	-	-	-0.15	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, I _O =0	-	-	-0.88	mA
Input resistor (Input to base)	R ₁	-	7	10	13	KΩ
Input resistor (Base to common)	R ₂	-	7	10	13	KΩ

*: Characteristic of transistor only

Electrical Characteristic Curves

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

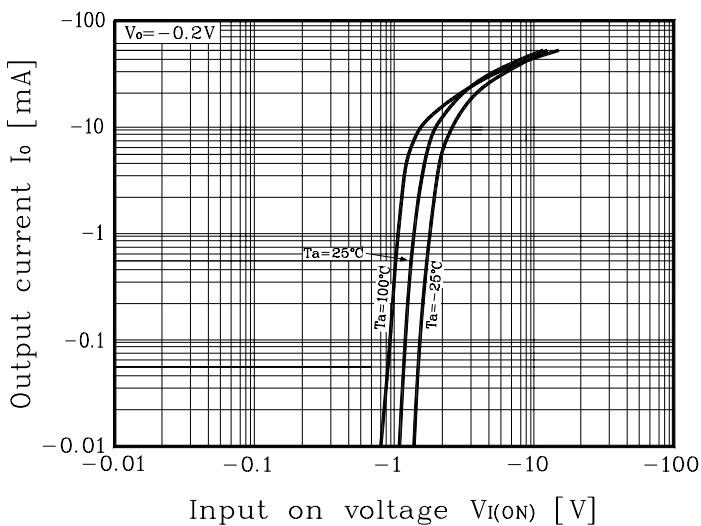


Fig. 2 $I_O - V_{I(OFF)}$

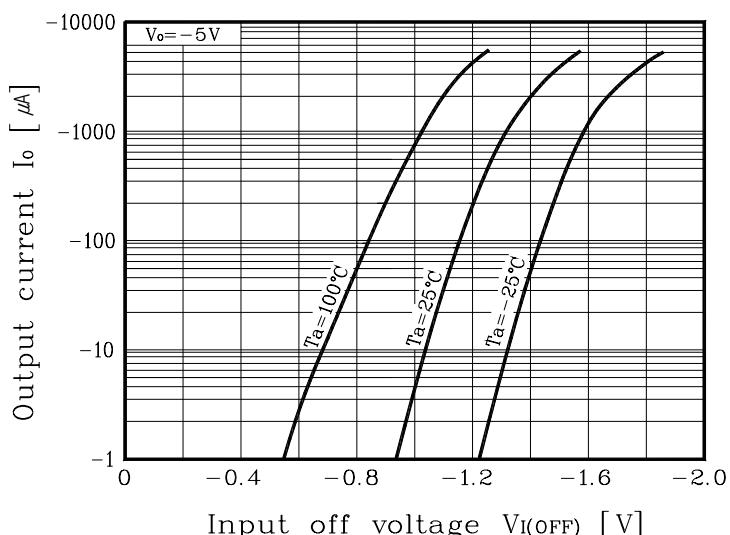
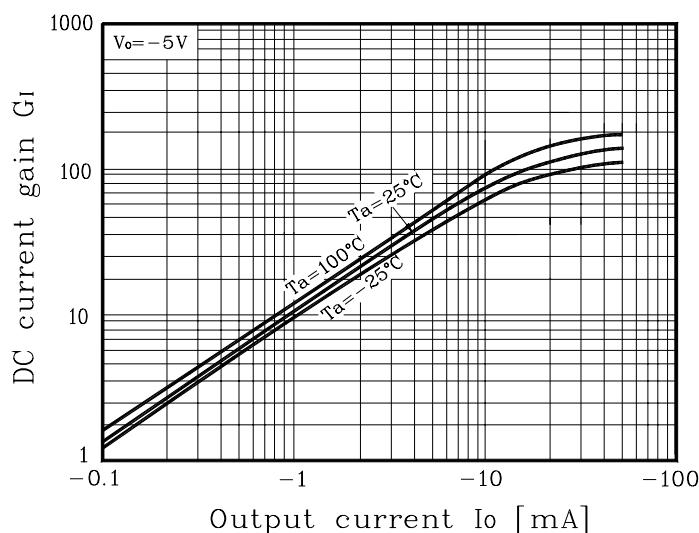


Fig. 3 $G_I - I_O$



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