

Descriptions

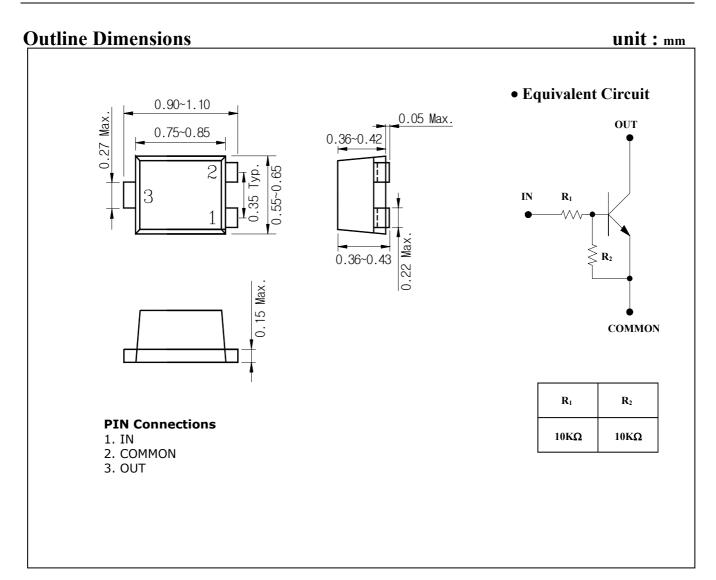
- Switching application
- Interface circuit and driver circuit application

Features

- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process
- Complementary pair with NT354

Ordering Information

Type NO.	Marking	Package Code	
NT353	В	SOT-923	



Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Output voltage	Vo	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

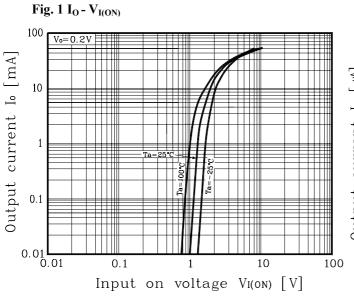
Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Тур.	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_0 =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 *	$V_0=10V$, $I_0=5mA$	-	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	K Ω
Input resistor (Base to common)	R_2	-	7	10	13	K Ω

^{* :} Characteristic of transistor only

Electrical Characteristic Curves



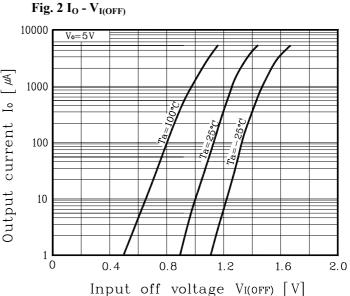
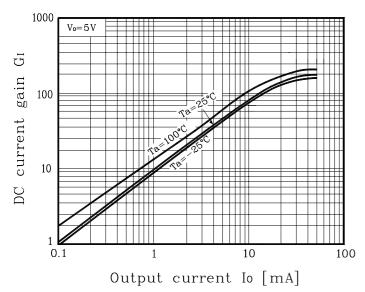


Fig. 3 G_I - I_O



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