

unit : mm

Descriptions

- Switching application
- Interface circuit and driver circuit application

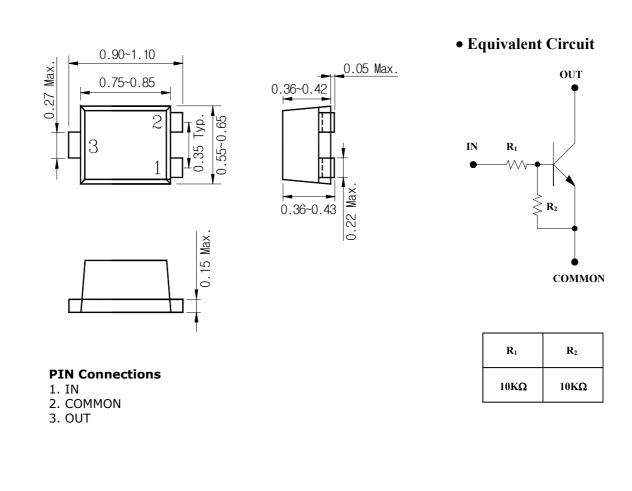
Features

- 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	

Outline Dimensions



NT353

Absolute Maximum Ratings

Absolute Maximum Ratings			(Ta=25°C)		
Characteristic	Symbol	Rating	Unit		
Output voltage	Vo	20	V		
Input voltage	VI	15,-10	V		
Output current	I _O	50	mA		
Power dissipation	P _D	50	mW		
Junction temperature	Tյ	150	°C		
Storage temperature range	T _{stg}	-55 ~ 150	°C		

Electrical Characteristics

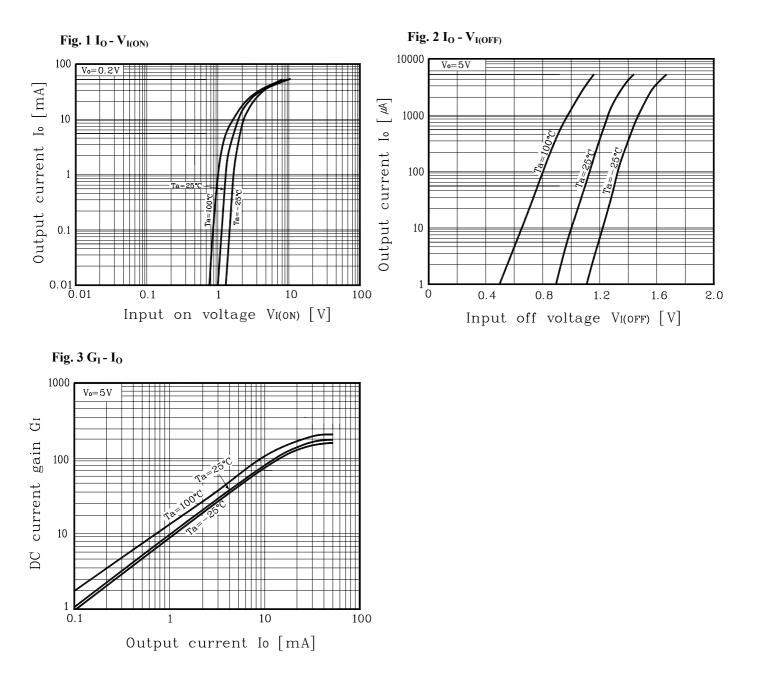
(Ta=25°C)

)
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Output cut-off current	$I_{O(OFF)}$	V ₀ =20V, V _I =0	-	-	500	nA
DC current gain	GI	V ₀ =5V, I ₀ =10mA	60	-	-	-
Output voltage	V _{O(ON)}	I ₀ =5mA, I _I =0.25mA	-	-	0.15	V
Input voltage (ON)	V _{I(ON)}	V ₀ =0.2V, I ₀ =5mA	-	1.8	2.4	V
Input voltage (OFF)	$V_{I(OFF)}$	V ₀ =5V, I ₀ =0.1mA	1.0	1.2	-	V
Transition frequency	f_{T}^{*}	V ₀ =10V, I ₀ =5mA	-	200	-	MHz
Input current	II	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

NT353

Electrical Characteristic Curves



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