

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 <sub>O</sub>	50	mA		
Power dissipation	P <sub>D</sub>	50	mW		
Junction temperature	Tյ	150	°C		
Storage temperature range	T <sub>stg</sub>	-55 ~ 150	°C		

## **Electrical Characteristics**

(Ta=25°C)

						)
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Output cut-off current	$I_{O(OFF)}$	V <sub>0</sub> =20V, V <sub>I</sub> =0	-	-	500	nA
DC current gain	GI	V <sub>0</sub> =5V, I <sub>0</sub> =10mA	60	-	-	-
Output voltage	V <sub>O(ON)</sub>	I <sub>0</sub> =5mA, I <sub>I</sub> =0.25mA	-	-	0.15	V
Input voltage (ON)	V <sub>I(ON)</sub>	V <sub>0</sub> =0.2V, I <sub>0</sub> =5mA	-	1.8	2.4	V
Input voltage (OFF)	$V_{I(OFF)}$	V <sub>0</sub> =5V, I <sub>0</sub> =0.1mA	1.0	1.2	-	V
Transition frequency	$f_{T}^{*}$	V <sub>0</sub> =10V, I <sub>0</sub> =5mA	-	200	-	MHz
Input current	II	V <sub>I</sub> =5V, I <sub>O</sub> =0	-	-	0.88	mA
Input resistor (Input to base)	R <sub>1</sub>	-	7	10	13	KΩ
Input resistor (Base to common)	R <sub>2</sub>	-	7	10	13	KΩ

\* : Characteristic of transistor only

## NT353

### **Electrical Characteristic Curves**



The AUK Corp. products are intended for the use as components in general electronic equipment (Office and communication equipment, measuring equipment, home appliance, etc.).

Please make sure that you consult with us before you use these AUK Corp. products in equipments which require high quality and / or reliability, and in equipments which could have major impact to the welfare of human life(atomic energy control, airplane, spaceship, transportation, combustion control, all types of safety device, etc.). AUK Corp. cannot accept liability to any damage which may occur in case these AUK Corp. products were used in the mentioned equipments without prior consultation with AUK Corp..

Specifications mentioned in this publication are subject to change without notice.