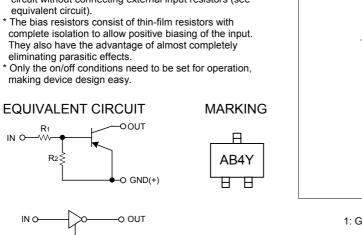
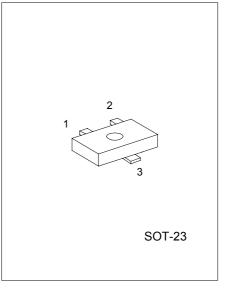
PNP DIGITAL TRANSISTOR (BUILT-IN RESISTORS)

FEATURES

- * Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors (see





1: GND 2: IN 3: OUT

ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

GND(+)

PARAMETER	SYMBOL	RATINGS	UNIT	
Supply voltage	Vcc	-50	V	
Input voltage	Vı	-40 ~ +6	V	
Output current	lo	-70	mA	
	IC (Max.)	-100		
Power Dissipation	Pb	200	mW	
Junction temperature	Tj	150	$^{\circ}$	
Storage temperature	Tstg	-55 ~ +150	$^{\circ}$	

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

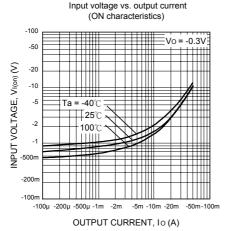
		(14 200)	_	_	_	
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Input voltage	VI (off)	Vcc=-5V, Io=-100 μ A			-0.3	V
	VI (on)	Vo=-0.3V, Io=-1mA	-1.4			ľ
Output voltage	VO (on)	Io/I:=-5mA/-0.25mA		-0.1	-0.3	V
Input current	lı	V ₁ =-5V			-0.88	mA
Output current	IO (off)	Vcc=-50V, Vi=0V			-0.5	μA
DC current gain	Gı	Vo=-5V, Io=-5mA	68			
Input resistance	R1		7	10	13	ΚΩ
Resistance ratio	R2/R1		3.7	4.7	5.7	
Transition frequency	f⊤	Vce=-10V, Ie=5mA, f=100MHz *		250		MHz

^{*} Transition frequency of the device

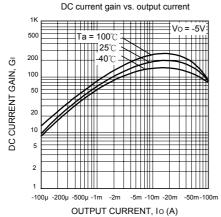
UNISONIC TECHNOLOGIES CO. LTD

1

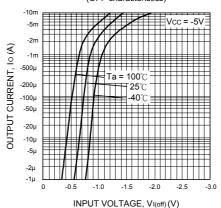
ELECTRICAL CHARACTERISTIC CURVES

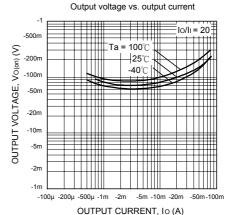






Output current vs. input voltage (OFF characteristics)





UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.

LITC

UNISONIC TECHNOLOGIES CO. LTD

2