PNP DIGITAL TRANSISTOR

PNP DIGITAL TRANSISTOR (BUILT-IN RESISTORS)

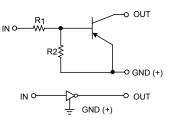
FEATURES

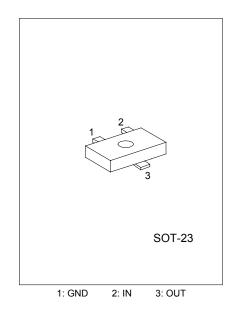
*Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors (see equivalent circuit).

*The bias resistors consist of thin-film resistors with complete isolation to allow positive biasing of the input They also have the advantage of almost completely eliminating parasitic effects.

*Only the on / off conditions need to be set for operation, making device design easy.

EQUIVALENT CIRCUIT





ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT	
Supply Voltage	Vcc	-50	V	
Input Voltage	Vin	-12 ~ +5	V	
Output Current	lo	-100		
	IC(max)	-100	mA	
Power Dissipation	PD	200	mW	
Junction Temperature	Tj	150	°C	
Storage Temperature	Tstg	-55 ~ +150	°C	

ww.DataSheet4U.com

MARKING

Π

AC3Y

HН

ELECTRICAL CHARACTERISTICS (Ta=25°C)

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= -20mA	-3			v
Output Voltage	VO(on)	lo/lı= -10mA / -0.5 mA			-0.3	V
Input Current	li	VI= -5V			-3.8	mA
Output Current	IO(off)	Vcc= -50V, VI=0V			-0.5	μA
DC Current Gain	Gı	Vo= -5V, lo= -10mA	33			
Input Resistance	R1		1.54	2.2	2.86	kΩ
Resistance Ratio	R2/R1		3.6	4.5	5.5	
Transition Frequency	fτ	Vce= -10 V, Ie= 5mA, f=100MHz*		250		MHz
*Transition frequency of the devic	פי					

Fransition frequency of the device

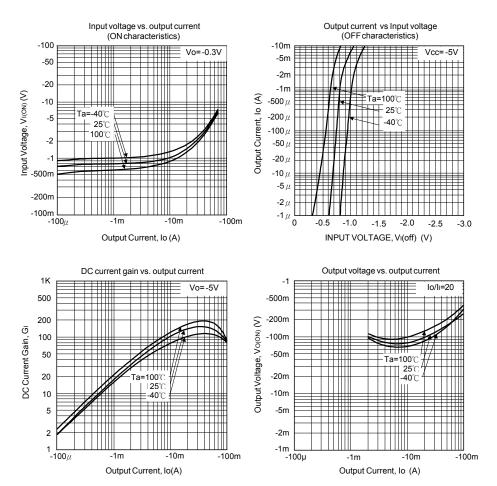
UTC UNISONIC TECHNOLOGIES CO. LTD

QW-R206-070,A

1

UTC DTA123Y

PNP DIGITAL TRANSISTOR



ELECTRICAL CHARACTERISTIC CURVES

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.

UTC UNISONIC TECHNOLOGIES CO. LTD

QW-R206-070,A

2