UTCDTB143E

PNP DIGITAL TRANSISTOR (BUILT-IN RESISTORS)

FEATURES

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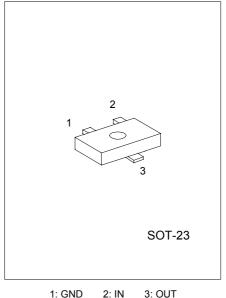
- *Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors (see the equivalent circuit).
- *The bias resistors consist of thin-film resistors with complete isolation to allow positive biasing of the input They also have the advantage of almost completely eliminating parasitic effects.
- *Only the on / off conditions need to be set for operation, making device design easy.



₩GND(+)



MARKING



1: GND

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

-○ GND(+)

ADOCEOTE MAXIMOM NATINGO (18-25 C)							
PARAMETER	SYMBOL RATING		UNIT				
Supply Voltage	Vcc	-50	V				
Input Voltage	VIN	-30~+10	V				
Output Current	IC	-500	mA				
Power Dissipation	PD	200	mW				
Junction Temperature	Tj	150	°C				
Storage Temperature	Tstg	-55 ~ +150	°C				

ELECTRICAL CHARACTERISTICS(Ta=25°C.unless otherwise specified)

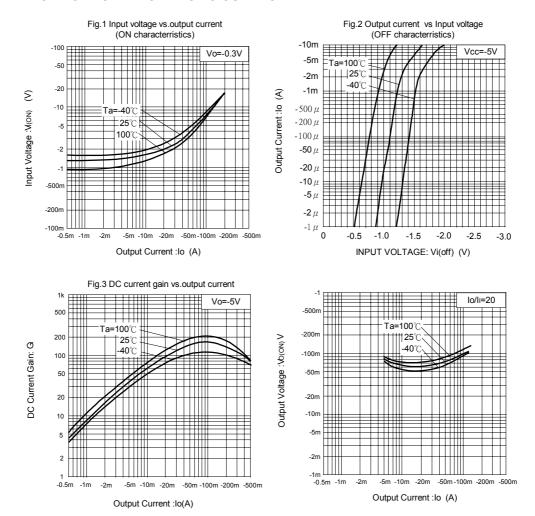
ELECTROAL CHARACTERIOTICS (Ta-25 C, unless otherwise specified)									
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT			
Input Voltage	VI(off)	Vcc= -5V,Io=100 μ A			-0.5	V			
	VI(ON)	Vo= -0.3V,Io= -20mA	-3						
Output Voltage	Vo(on)	Io/I _I = -50mA/-2.5 mA			-0.3	V			
Input Current	lı .	VI= -5V			-1.8	mA			
Output Current	I _O (off)	Vcc= -50V , Vi=0V			-0.5	μ A			
DC Current Gain	Gı	Vo= -5V,I _O = -50mA	47						
Input Resistance	R1		3.29	4.7	6.11	$\mathbf{k} \Omega$			
Resistance Ratio	R ₂ /R ₁		0.8	1	1.2				
Transition Frequency	fr	Vce= -10 V, Ie=5mA,f=100MHz *		200		MHz			

^{*}Transition frequency of the device



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ELECTRICAL CHARACTERISTIC CURVES



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