UTCDTA115E

PNP DIGITAL TRANSISTOR (BUILT-IN RESISTORS)

FEATURES

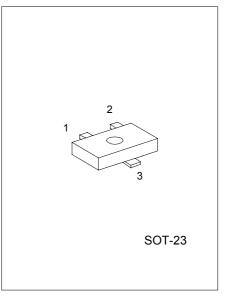
- *Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors (see the equivalent circuit).
- *The bias resistors consist of thin-film resistors with complete isolation to allow positive biasing of the input They also have the advantage of almost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







MARKING



1: GND 2: IN 3: OUT

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

GND (+)

PARAMETER	SYMBOL	RATINGS	UNIT				
Supply Voltage	Vcc	-50	V				
Input Voltage	VIN	-40~+10	V				
Output Current	lo	-20	mA				
	lc(max)	-100	IIIA				
Power Dissipation	Po	200	mW				
Junction Temperature	Tj	150	°C				
Storage Temperature	Tstg	-55 ~ +150	°C				

ELECTRICAL CHARACTERISTICS (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= -1mA	-3			
Output Voltage	Vo(on)	Io= -5mA, II= -0.25 mA		-0.1	-0.3	V
Input Current	lı	VI= -5V			-0.15	mA
Output Current	I _O (off)	Vcc= -50V , Vi=0V			-0.5	μA
DC Current Gain	Gı	Vo= -5V,I _O = -5mA	82			
Input Resistance	R1		70	100	130	kΩ
Resistance Ratio	R2/R1		0.8	1	1.2	
Transition Frequency	fτ	Vce= -10 V, IE= 5mA, f=100MHz *		250		MHz

^{*}Transition frequency of the device



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