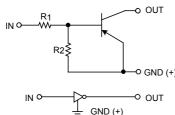
PNP DIGITAL TRANSISTOR (BUILT-IN RESISTORS)

FEATURES

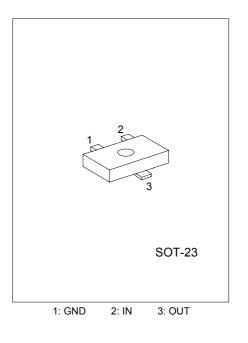
- *Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors (see equivalent circuit).
- *The bias resistors consist of thin-film resistors with complete isolation to allow positive biasing of the input They also have the advantage of almost completely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











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	mA	
	IC(max)	-100		
Power Dissipation	Po	200	mW	
Junction Temperature	Tj	150	$^{\circ}\mathbb{C}$	
Storage Temperature	Tstg	-55 ~ +150	$^{\circ}\mathbb{C}$	

ELECTRICAL CHARACTERISTICS (Ta=25°C)

ELECTRICAL CHARACTERIO 100		(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)	Io/I _I = -10mA / -0.5 mA			-0.3	V
Input Current	lı	VI= -5V			-3.8	mA
Output Current	IO(off)	Vcc= -50V, Vi=0V			-0.5	μ A
DC Current Gain	Gı	Vo= -5V, Io= -10mA	33			
Input Resistance	R1		1.54	2.2	2.86	$\mathbf{k}\Omega$
Resistance Ratio	R ₂ /R ₁		3.6	4.5	5.5	
Transition Frequency	fτ	Vce= -10 V, Ie= 5mA, f=100MHz*		250		MHz

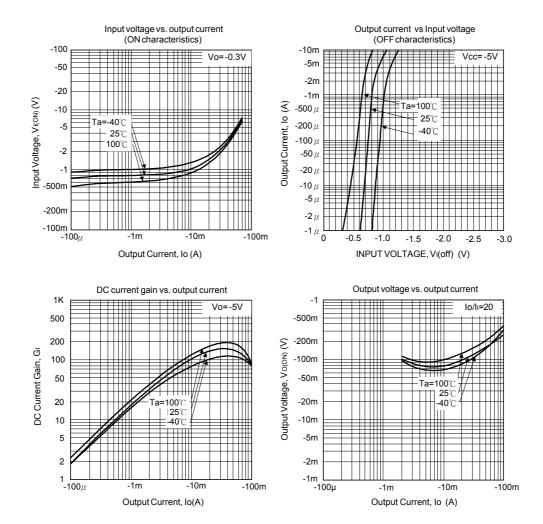
^{*}Transition frequency of the device



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ELECTRICAL CHARACTERISTIC CURVES



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