PNP DIGITAL TRANSISTOR (BUILT-IN RESISTOR)

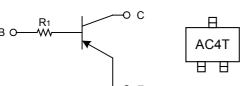
FEATURES

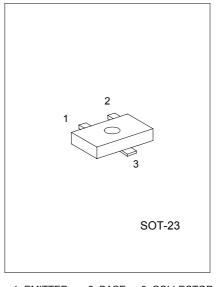
- *Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors.
- *The bias resistors consist of thin-film resistors with complete isolation to allow positive biasing of the input They also have the advantage of almost completely eliminating parasitic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





MARKING





1: EMITTER 2: BASE 3: COLLECTOR

ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

PARAMETER	SYMBOL RATINGS		UNIT	
Collector-base voltage	Vсво	-50	V	
Collector-emitter voltage	VCEO	-50	V	
Emitter-base voltage	VEBO	-5	V	
Collector current	lc	-100	mA	
Collector Power dissipation	Pc	200	mW	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55~+150	°C	

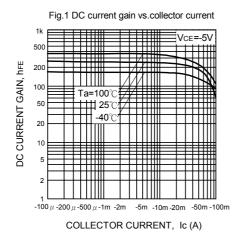
ELECTRICAL CHARACTERISTICS (Ta=25°C, unless otherwise specified)

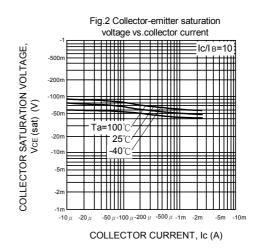
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	ВУсво	Ic=-50μA	-50			V
Collector-emitter breakdown voltage	BVceo	Ic=-1mA	-50			V
Emitter-base breakdown voltage	ВУево	IE=-50μA	-5			V
Collector cutoff current	Ісво	VcB=-50V			-0.5	μΑ
Emitter cutoff current	ІЕВО	V _{EB} =-4V			-0.5	μΑ
Collector-emitter saturation voltage	Vce(sat)	Ic=-5mA, I _B = -0.5mA			-0.3	V
DC current transfer ratio	hfe	VcE=-5V, Ic= -1mA	100	250	600	
Input resistance	R1		15.4	22	28.6	$\mathbf{k} \Omega$
Transition frequency	fr	Vc=-10V, Ie=5mA, f=100MHz *		250		MHz

^{*} Transition frequency of the device

UTC UNISONIC TECHNOLOGIES CO. LTD

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