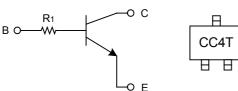
NPN DIGITAL TRANSISTOR (BUILT-IN RESISTOR)

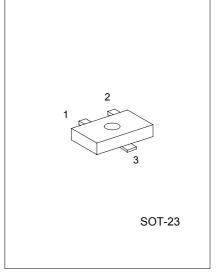
FEATURES

- *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.









1: EMITTER 2: BASE 3: COLLECTOR

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

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	$^{\circ}$	
Storage temperature	Tstg	-55~+150	$^{\circ}$	

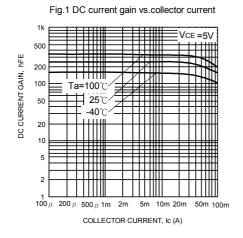
ELECTRICAL CHARACTERISTICS (Ta=25°C,unless otherwise specified)

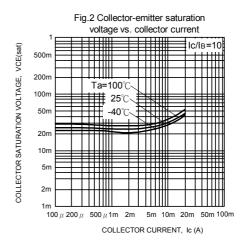
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	ВУсво	Ic=50 μ A	50			V
Collector-emitter breakdown voltage	BVceo	Ic=1mA	50			٧
Emitter-base breakdown voltage	ВVево	IE=50 μ A	5			V
Collector cutoff current	Ісво	Vcb=50V			0.5	μА
Emitter cutoff current	ІЕВО	V _{EB} =4V			0.5	μА
Collector-emitter saturation voltage	Vce(sat)	Ic=5mA, IB=0.5mA			0.3	>
DC current transfer ratio	hFE	VcE=5V, Ic=1mA	100	250	600	
Input resistance	R1		15.4	22	28.6	kΩ
Transition frequency	fτ	VcE=10V, IE= -5mA, f=100MHz *		250		MHz

^{*} Transition frequency of the device

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ELECTRICAL CHARACTERISTIC CURVES





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