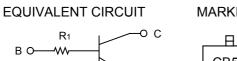
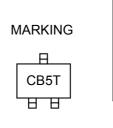
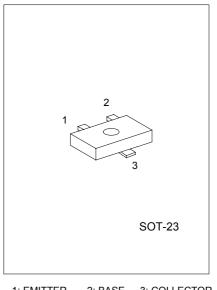
NPN DIGITAL TRANSISTOR (BUILT-IN RESISTOR)

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℃)

PARAMETER	SYMBOL	RATING	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)

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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	BVEBO	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=1mA, IB=0.1mA			0.3	V
DC current transfer ratio	hfe	VcE=5V, Ic=1mA	100	250	600	
Input resistance	R1		70	100	130	$\mathbf{k} \Omega$
Transition frequency	fτ	VcE=10V, IE=-5mA, f=100MHz *		250		MHz

^{*} Transition frequency of the device

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