

SMALL SIGNAL PNP TRANSISTOR

PRELIMINARY DATA

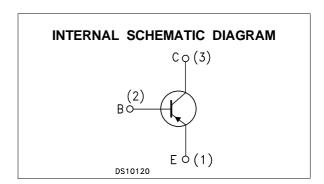
Туре	Marking	
BCX17	T1	

- SILICON EPITAXIAL PLANAR PNP TRANSISTOR
- MINIATURE SOT-23 PLASTIC PACKAGE FOR SURFACE MOUNTING CIRCUITS
- TAPE AND REEL PACKING
- THE NPN COMPLEMENTARY TYPE IS BCX19

APPLICATIONS

- WELL SUITABLE FOR PORTABLE EQUIPMENT
- SMALL LOAD SWITCH TRANSISTOR WITH HIGH GAIN AND LOW SATURATION VOLTAGE





ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage (I _E = 0)	-50	V
Vceo	Collector-Emitter Voltage (I _B = 0)	-45	V
V _{EBO}	Emitter-Base Voltage (I _C = 0)	-5	V
Ic	Collector Current	-0.5	
I _{CM}	Collector Peak Current	-1	
P _{tot}	Total Dissipation at $T_C = 25$ °C 250		mW
T _{stg}	Storage Temperature	perature -65 to 150	
Tj	Max. Operating Junction Temperature	150	

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THERMAL DATA

R _{thj-amb} •	Thermal Resistance Junction-Ambient	Max	500	°C/W	
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[•] Device mounted on a PCB area of 1 cm².

ELECTRICAL CHARACTERISTICS ($T_{case} = 25$ $^{\circ}C$ unless otherwise specified)

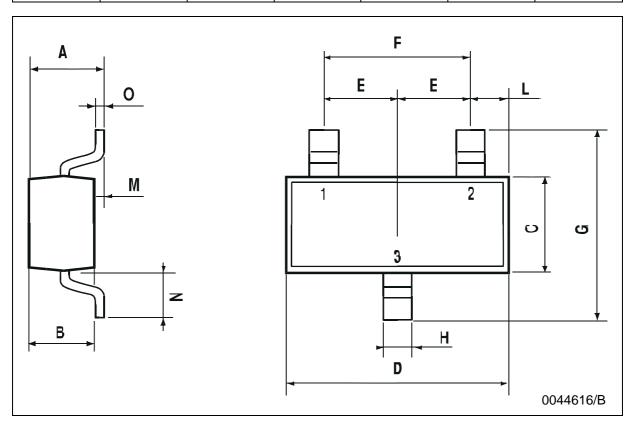
Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
I _{CBO}	Collector Cut-off Current (I _E = 0)	V _{CB} = -20 V V _{CB} = -20 V T _C = 150 °C			-100 -5	nA μA
I _{EBO}	Emitter Cut-off Current (I _C = 0)	V _{EB} = -5 V			-100	nA
V _(BR) CBO	Collector-Base Breakdown Voltage (I _E = 0)	Ic = -10 μA	-50			V
V _{(BR)CEO*}	Collector-Emitter Breakdown Voltage (I _B = 0)	I _C = -10 mA	-45			<
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (Ic = 0)	ΙΕ = -10 μΑ	-5			<
$V_{CE(sat)^*}$	Collector-Emitter Saturation Voltage	$I_{C} = -500 \text{ mA}$ $I_{B} = -50 \text{ mA}$			-0.62	V
$V_{BE(on)^*}$	Base-Emitter On Voltage	$I_{C} = -500 \text{ mA}$ $V_{CE} = -1 \text{ V}$			-1.2	V
h _{FE} *	DC Current Gain	I _C = -100 mA	100 70 40		600	
f⊤	Transition Frequency	$I_{C} = -10 \text{mA} \ V_{CE} = -5 \ \text{V} \ f = 100 \text{MHz}$	80			MHz
Ссво	Collector-Base Capacitance	$I_E = 0 \text{ mA}$ $V_{CB} = -10 \text{ V}$ $f = 1 \text{MHz}$		9		pF

^{*} Pulsed: Pulse duration = 300 μs , duty cycle \leq 2 %

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SOT-23 MECHANICAL DATA

DIM.	mm			mils			
Diwi.	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.	
А	0.85		1.1	33.4		43.3	
В	0.65		0.95	25.6		37.4	
С	1.20		1.4	47.2		55.1	
D	2.80		3	110.2		118	
E	0.95		1.05	37.4		41.3	
F	1.9		2.05	74.8		80.7	
G	2.1		2.5	82.6		98.4	
Н	0.38		0.48	14.9		18.8	
L	0.3		0.6	11.8		23.6	
М	0		0.1	0		3.9	
N	0.3		0.65	11.8		25.6	
0	0.09		0.17	3.5		6.7	



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