

# PNP small signal transistor

## BCX17

Small load switch transistor with high gain and Low saturation voltage.

### ●Features

- 1) High gain and low saturation voltage.
- 2) Ideal for small load switching applications.
- 3) Complements the BCX19.

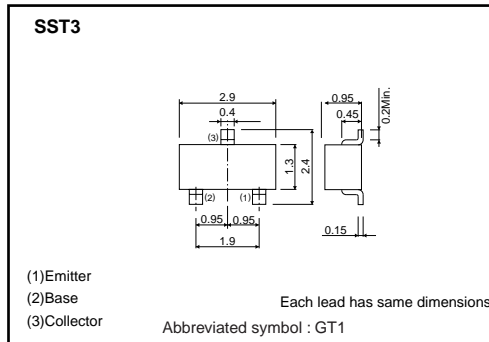
### ●Packaging specifications

Type	Package	Taping
	Code	T116
	Basic ordering unit (pieces)	3000

BCX17	○
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### ●Dimensions (Unit : mm)



### ●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-emitter voltage (V <sub>BE</sub> =0)	V <sub>CES</sub>	-50	V
Collector-emitter voltage (open base)	V <sub>CEO</sub>	-45	V
Emitter-base voltage	V <sub>EBO</sub>	-5	V
Collector current	I <sub>C</sub>	-0.5	A
Collector current (peak value)	I <sub>CM</sub>	-1	A
Collector power dissipation	P <sub>C</sub>	0.2	W
		0.35	W *
		0.425	W *2
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-65 to 150	°C

\* Mounted on a 7×5×0.6 mm CERAMIC SUBSTRATE

\*2 Mounted on a 15×15×0.6 mm CERAMIC SUBSTRATE

### ●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-emitter breakdown voltage	BV <sub>CES</sub>	-50	-	-	V	I <sub>C</sub> = -50μA
Collector-emitter breakdown voltage	BV <sub>CEO</sub>	-45	-	-	V	I <sub>C</sub> = -10mA
Emitter-base breakdown voltage	BV <sub>EBO</sub>	-5	-	-	V	I <sub>E</sub> = -50μA
Collector-base cutoff current	I <sub>CBO</sub>	-	-	-0.1	μA	V <sub>CB</sub> = -20V
Emitter-base cutoff current	I <sub>EBO</sub>	-	-	-10	μA	V <sub>EB</sub> = -5V
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	-	-	-0.62	V	I <sub>C</sub> /I <sub>B</sub> = -500mA/ -50mA
Base-emitter voltage	V <sub>BE(on)</sub>	-	-	-1.2	V	V <sub>CE</sub> /I <sub>C</sub> = -1V/ -500mA
DC current transfer ratio	h <sub>FE</sub>	100	-	600	-	V <sub>CE</sub> = -1V, I <sub>C</sub> = -100mA
		70	-	-	-	V <sub>CE</sub> = -1V, I <sub>C</sub> = -300mA
		40	-	-	-	V <sub>CE</sub> = -1V, I <sub>C</sub> = -500mA
Transition frequency	f <sub>T</sub>	-	200	-	MHz	V <sub>CE</sub> = -5V, I <sub>E</sub> = -20mA, f=100MHz
Collector-base cutoff current	I <sub>CBO</sub>	-	-	-5	μA	V <sub>CB</sub> = -20V, Ta=150°C

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