

PNP small signal transistor

BCX17

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

●Features

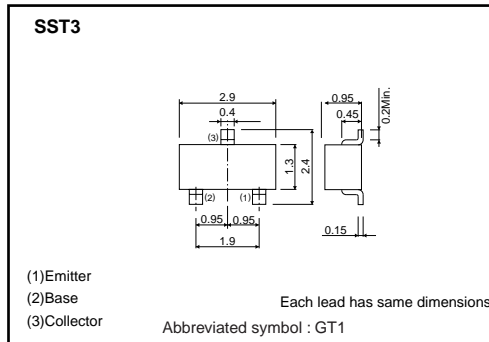
- 1) High gain and low saturation voltage.
- 2) Ideal for small load switching applications.
- 3) Complements the BCX19.

●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 _{BE} =0)	V _{CES}	-50	V
Collector-emitter voltage (open base)	V _{CEO}	-45	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	I _C	-0.5	A
Collector current (peak value)	I _{CM}	-1	A
Collector power dissipation	P _C	0.2	W
		0.35	W *
		0.425	W *2
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-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 _{CES}	-50	-	-	V	I _C = -50μA
Collector-emitter breakdown voltage	BV _{CEO}	-45	-	-	V	I _C = -10mA
Emitter-base breakdown voltage	BV _{EBO}	-5	-	-	V	I _E = -50μA
Collector-base cutoff current	I _{CBO}	-	-	-0.1	μA	V _{CB} = -20V
Emitter-base cutoff current	I _{EBO}	-	-	-10	μA	V _{EB} = -5V
Collector-emitter saturation voltage	V _{CE(sat)}	-	-	-0.62	V	I _C /I _B = -500mA/ -50mA
Base-emitter voltage	V _{BE(on)}	-	-	-1.2	V	V _{CE} /I _C = -1V/ -500mA
DC current transfer ratio	h _{FE}	100	-	600	-	V _{CE} = -1V, I _C = -100mA
		70	-	-	-	V _{CE} = -1V, I _C = -300mA
		40	-	-	-	V _{CE} = -1V, I _C = -500mA
Transition frequency	f _T	-	200	-	MHz	V _{CE} = -5V, I _E = -20mA, f=100MHz
Collector-base cutoff current	I _{CBO}	-	-	-5	μA	V _{CB} = -20V, Ta=150°C

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