

NPN small signal transistor

BFS17

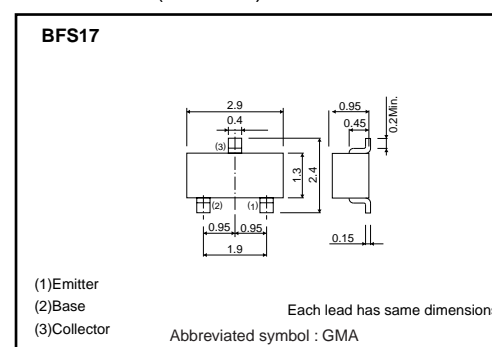
●Features

- 1) Ideal for RF applications.
- 2) Mixers and oscillations in TV tuners.
- 3) RF communications equipment.

●Packaging specifications

Type	Package	Taping
	Code	T116
	Basic ordering unit (pieces)	3000
BFS17		○

●Dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	V _{CB0}	25	V
Collector-emitter voltage	V _{CE0}	15	V
Emitter-base voltage	V _{EB0}	2.5	V
Collector current	I _c	0.05	A
Collector power dissipation	P _c	0.20	W
		0.25	W *
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to 150	°C

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

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-emitter breakdown voltage	BV _{CEO}	15	-	-	V	I _c = 1mA
Collector-emitter breakdown voltage	BV _{CB0}	5	-	-	V	I _c = 50μA
Emitter-base breakdown voltage	BV _{EB0}	2.5	-	-	V	I _E = 50μA
Collector-base cutoff current	I _{cB0}	-	-	0.1	μA	V _{CB} = 10V
DC current transfer ratio	h _{FE}	20	-	150	-	V _{CE} = 1V, I _c = 2mA
		20	-	-	-	V _{CE} = 1V, I _c = 25mA
Transition frequency	f _r	-	1000	-	MHz	V _{CE} = 5V, I _c = 10mA
Collector output capacitance	C _{ob}	-	-	1.5	pF	V _{CB} = 10V, f=1MHz
Collector input capacitance	C _{ib}	-	-	2.0	pF	V _{CB} = 0.5V, f=1MHz
Collector-base cutoff current	I _{cB0}	-	-	10	μA	V _{CB} = 10V, Ta=100°C

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