NPN small signal transistor

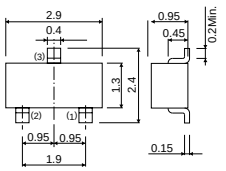
BFS17

●**Features**

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

●**Dimensions** (Unit : mm)

BFS17



(1)Emitter
(2)Base
(3)Collector

Each lead has same dimensions

Abbreviated symbol : GMA

●**Packaging specifications**

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

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

Parameter	Symbol	Limits	Unit	
Collector-base voltage	V_{CBO}	25	V	
Collector-emitter voltage	V_{CEO}	15	V	
Emitter-base voltage	V_{EBO}	2.5	V	
Collector current	I_C	0.05	A	
Collector power dissipation	P_C	0.20	W	
		0.25	W	*
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	−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_{CBO}	5	–	–	V	I_C= 50μA
Emitter-base breakdown voltage	BV_{EBO}	2.5	–	–	V	I_E= 50μA
Collector-base cutoff current	I_{CBO}	–	–	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_T	–	1000	–	MHz	V_{CE}= 5V, I_C= 10mA
Collector output capacitance	Cob	–	–	1.5	pF	V_{CB}= 10V, f=1MHz
Collector input capacitance	Cib	–	–	2.0	pF	V_{CB}= 0.5V, f=1MHz
Collector-base cutoff current	I_{CBO}	–	–	10	μA	V_{CB}= 10V, Ta=100°C

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