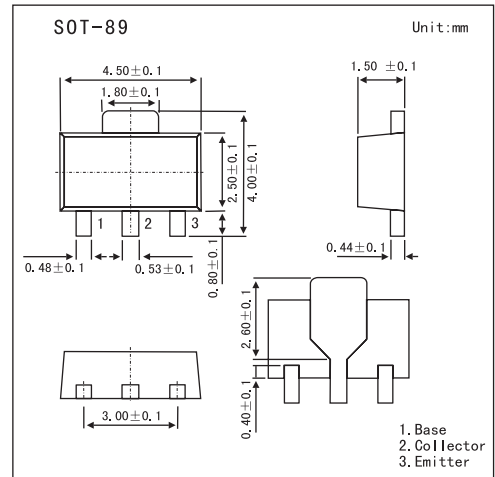


■ Features

- Low current (max. 50 mA)
- High voltage (max. 300 V).



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
collector-base voltage (open emitter)	V _{CB0}	BF620 300	V
BF622 250		V	
collector-emitter voltage (open-base)	V _{CEO}	BF620 300	V
BF622 250		V	
emitter-base voltage (open collector)	V _{EBO}	5	V
collector current (DC)	I _c	50	mA
peak collector current	I _{CM}	100	mA
peak base current	I _{BM}	50	mA
total power dissipation $T_{amb} \leq 25^\circ\text{C}^*$	P _{tot}	1.25	W
storage temperature	T _{stg}	-65 to 150	°C
junction temperature	T _j	150	°C
operating ambient temperature	T _{amb}	-65 to 150	°C
thermal resistance from junction to ambient *	R _{th j-a}	100	K/W
thermal resistance from junction to soldering point	R _{th j-s}	20	K/W

* Device mounted on a printed-circuit board, single-sided copper, tinplated, mounting pad for collector 6 cm².

■ Electrical Characteristics Ta = 25°C unless otherwise specified.

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
collector cut-off current	V _{(BR)CBO}	I _E = 0; V _{CB} = 200 V			10	nA
		I _E = 0; V _{CB} = 200 V; T _j = 150 °C			10	mA
emitter cut-off current	I _{EBO}	I _C = 0; V _{EB} = 5 V			50	nA
DC current gain	h _{FE}	I _C = 25 mA; V _{CE} = 20 V	50			
collector-emitter saturation voltage	V _{CEsat}	I _C = 30 mA; I _B = 5 mA			600	mV
feedback capacitance	C _{re}	I _C = I _C = 0; V _{CE} = 30 V; f = 1 MHz			1.6	pF
transition frequency	f _T	I _C = 10 mA; V _{CE} = 10 V; f = 100 MHz	60			MHz

■ Marking

Type Number	BF620	BF622
Marking	DC	DA