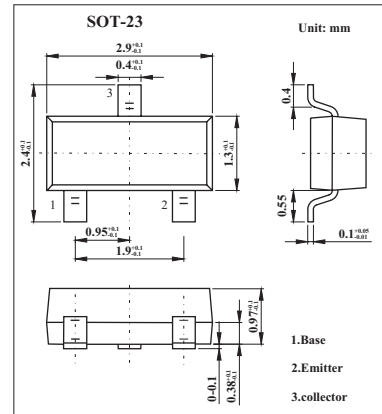


BF820, BF822

■ **Features**

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



■ **Absolute Maximum Ratings Ta = 25°C**

Parameter	Symbol	Rating	Unit
Collector-base voltage	BF820	300	V
	BF822	250	V
Collector-emitter voltage	BF820	300	V
	BF822	250	V
Emitter-base voltage	VEBO	5	V
Collector current	IC	50	mA
Peak collector current	ICM	100	mA
Peak base current	IBM	50	mA
Total power dissipation *	Ptot	250	mW
Storage temperature	Tstg	-65 to +150	°C
Junction temperature	Tj	150	°C
Operating ambient temperature	Ramb	-65 to +150	°C
Thermal resistance from junction to ambient *	Rth j-a	500	K/W

* Transistor mounted on an FR4 printed-circuit board.

■ **Electrical Characteristics Ta = 25°C**

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector cutoff current	ICBO	IE = 0; VCB = 200 V			10	nA
		IE = 0; VCB = 200 V; Tj = 150 °C			10	µA
Emitter cutoff current	IEBO	IC = 0; VEB = 5 V			50	nA
DC current gain *	hFE	IC = 25 mA; VCE = 20 V	50			
collector-emitter saturation voltage	VCEsat	IC = 30 mA; IB = 5 mA			600	mV
Feedback capacitance	Cre	IC = IC = 0; VCB = 30 V; f = 1 MHz			1.6	pF
Transition frequency	fT	IC = 10 mA; VCE = 10 V; f = 100 MHz	60			MHz

■ **hFE Classification**

TYPE	BF820	BF822
Marking	1V	1X