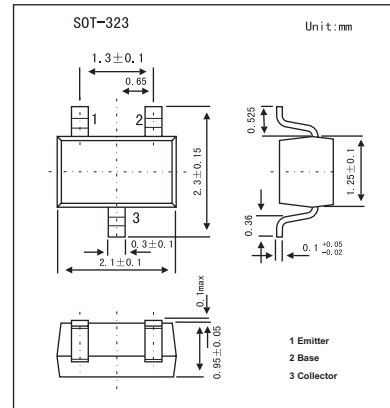


**2SC4666**

■ Features

- High hFE: hFE = 600~3600
- High voltage: V<sub>CEO</sub> = 50 V
- High collector current: I<sub>C</sub> = 150 mA (max)
- Small package



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V <sub>CB0</sub>	50	V
Collector-emitter voltage	V <sub>CEO</sub>	50	V
Emitter-base voltage	V <sub>EB0</sub>	5	V
Collector current	I <sub>C</sub>	150	mA
Base current	I <sub>B</sub>	30	mA
Collector power dissipation	P <sub>C</sub>	100	mW
Junction temperature	T <sub>j</sub>	125	°C
Storage temperature	T <sub>stg</sub>	-55 to +125	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> = 50 V, I <sub>E</sub> = 0			0.1	μA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> = 5 V, I <sub>C</sub> = 0			0.1	μA
DC current gain	hFE	V <sub>CE</sub> = 6 V, I <sub>C</sub> = 2 mA	600		3600	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> = 100 mA, I <sub>B</sub> = 10 mA		0.12	0.25	V
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> = 10 V, I <sub>C</sub> = 10 mA	100	250		MHz
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> = 10 V, I <sub>E</sub> = 0, f = 1 MHz		3.5		pF
Noise figure	NF(1)	V <sub>CE</sub> = 6 V, I <sub>C</sub> = 0.1 mA, f = 100 Hz, R <sub>g</sub> = 10 kΩ		0.5		dB
	NF(2)	V <sub>CE</sub> = 6 V, I <sub>C</sub> = 0.1 mA, f = 1 kHz, R <sub>g</sub> = 10 kΩ		0.3		dB

■ hFE Classification

Marking	P	
	A	B
hFE	600~1800	1200~3600