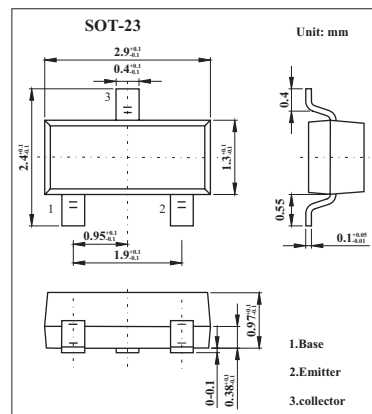


# 2SC1622A

■ Features

- High DC current gain.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V <sub>CB0</sub>	120	V
Collector-emitter voltage	V <sub>CEO</sub>	120	V
Emitter-base voltage	V <sub>EB0</sub>	5	V
Collector current	I <sub>c</sub>	50	mA
Total power dissipation	P <sub>T</sub>	200	mW
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector cutoff current	I <sub>CBO</sub>	V <sub>CB</sub> = 120V, I <sub>E</sub> =0			0.05	μA
Emitter cutoff current	I <sub>EBO</sub>	V <sub>EB</sub> = 5V, I <sub>C</sub> =0			0.05	μA
DC current gain *	h <sub>FE</sub>	V <sub>CE</sub> = 6V, I <sub>C</sub> = 1mA	135	500	900	
		V <sub>CE</sub> = 6V, I <sub>C</sub> = 0.1mA	100			
Collector-emitter saturation voltage *	V <sub>CE(sat)</sub>	I <sub>C</sub> = 10mA, I <sub>B</sub> = 1mA		0.07	0.30	V
Base-emitter voltage *	V <sub>BE</sub>	V <sub>CE</sub> = 6V, I <sub>C</sub> = 1mA	0.55	0.58	0.65	V
Gain bandwidth product	f <sub>T</sub>	V <sub>CE</sub> = 6V, I <sub>E</sub> = -1mA	50	110		MHz
Output capacitance	C <sub>ob</sub>	V <sub>CB</sub> = 30V, I <sub>E</sub> = 0, f = 1.0MHz		1.6	2.5	pF

\* Pulse test: t<sub>p</sub> ≤ 350 μs; d ≤ 0.02.

■ hFE Classification

Marking	D15	D16	D17	D18
hFE	135~270	200~400	300~600	450~900