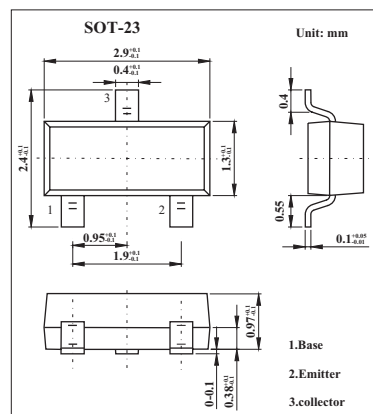


# 2SA1235

### ■ Features

- Small collector to emitter saturation voltage.
- Excellent lineary DC forward current gain.
- Super mini package for easy mounting.



### ■ 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>EBO</sub>	-6	V
Collector current	I <sub>c</sub>	-200	mA
Collector dissipation (Ta=25°C)	P <sub>c</sub>	150	mW
Jumction 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-emitter breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> = -100μA , R <sub>BE</sub> = ∞	-50			V
Collector cutoff current	I <sub>CBO</sub>	I <sub>CB</sub> = -50V , I <sub>E</sub> = 0			-0.1	μA
Emitter cutoff current	I <sub>EBO</sub>	V <sub>EB</sub> = -6V , I <sub>C</sub> = 0			-0.1	μA
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> = -6V , I <sub>C</sub> = -1mA	150		800	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> = -100mA , I <sub>B</sub> = -10mA			-0.3	V
Current gain bandwidth product	f <sub>T</sub>	V <sub>CE</sub> = -6V , I <sub>E</sub> = 10mA		200		MHz
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> = -6V , I <sub>E</sub> = 0 , f = 1MHz		4.0		pF
Noise figure	NF	V <sub>CB</sub> = -6V , I <sub>E</sub> = 0.3mA , f = 100Hz , R <sub>G</sub> = 10KΩ			20	dB

### ■ hFE Classification

Marking	ME	MF	MG
hFE	150~300	250~500	400~800