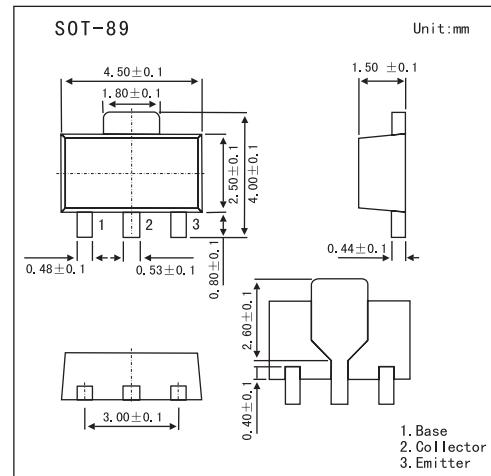


**Silicon PNP Epitaxial Planar Type****2SB1073****■ Features**

- Low collector-emitter saturation voltage VCE(sat)
- Large peak collector current ICP
- Mini Power type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.

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

Parameter	Symbol	Rating	Unit
Collector-base voltage	V <sub>CBO</sub>	-30	V
Collector-emitter voltage	V <sub>C EO</sub>	-20	V
Emitter-base voltage	V <sub>EBO</sub>	-7	V
Peak collector current	I <sub>CP</sub>	-4	A
Collector current	I <sub>C</sub>	-7	mA
Collector power dissipation	P <sub>C</sub>	1	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	Testconditons	Min	Typ	Max	Unit
Collector-base voltage	V <sub>CBO</sub>	I <sub>C</sub> = -10 μA, I <sub>E</sub> = 0	-30			V
Collector-emitter voltage	V <sub>C EO</sub>	I <sub>C</sub> = -1 mA, I <sub>B</sub> = 0	-20			V
Emitter-base voltage	V <sub>EBO</sub>	I <sub>E</sub> = -10 μA, I <sub>C</sub> = 0	-7			V
Collector-base cutoff current	I <sub>CBO</sub>	V <sub>CB</sub> = -30 V, I <sub>E</sub> = 0			-0.1	μA
Emitter-base cutoff current	I <sub>EBO</sub>	V <sub>EB</sub> = -7 V, I <sub>C</sub> = 0			-0.1	μA
Forward current transfer ratio	h <sub>FE</sub>	V <sub>CE</sub> = -2 V, I <sub>C</sub> = -2 A	120	315		
Collector-emitter saturation voltage	V <sub>C E(sat)</sub>	I <sub>C</sub> = -3 A, I <sub>B</sub> = -0.1 A		-0.6	-1.0	V
Transition frequency	f <sub>T</sub>	V <sub>CB</sub> = -6 V, I <sub>E</sub> = 50 mA, f = 200 MHz	120			MHz
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> = -20 V, I <sub>E</sub> = 0, f = 1 MHz		4		pF

**■ hFE Classification**

Marking	IP	IQ
h <sub>FE</sub>	120~205	180~315