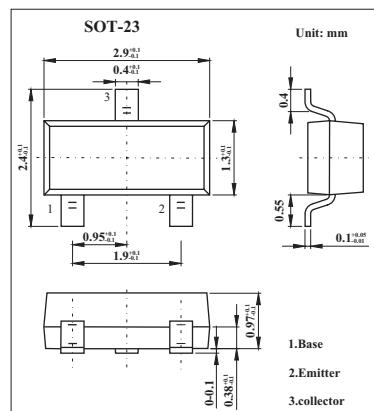


Silicon PNP Epitaxial Planar Type

2SB710

■ Features

- Large collector current I_C .
- Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	-30	V
Collector-emitter voltage	V_{CEO}	-25	V
Emitter-base voltage	V_{EBO}	-5	V
Collector current	I_C	-0.5	A
Peak collector current	I_{CP}	-1	A
Collector power dissipation	P_C	200	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector-base voltage	V_{CBO}	$I_C = -10 \mu\text{A}, I_E = 0$	-30			V
Collector-emitter voltage	V_{CEO}	$I_C = -10 \text{ mA}, I_B = 0$	-25			V
Emitter-base voltage	V_{EBO}	$I_E = -10 \mu\text{A}, I_C = 0$	-5			V
Collector-base cutoff current	I_{CBO}	$V_{CB} = -20 \text{ V}, I_E = 0$			-0.1	μA
Forward current transfer ratio	h_{FE}	$V_{CE} = -10 \text{ V}, I_C = -150 \text{ mA}$	85	340		
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -300 \text{ mA}, I_B = -30 \text{ mA}$		-0.35	-0.6	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -300 \text{ mA}, I_B = -30 \text{ mA}$		-1.1	-1.5	V
Transition frequency	f_T	$V_{CB} = -10 \text{ V}, I_E = 50 \text{ mA}, f = 200 \text{ MHz}$		200		MHz
Collector output capacitance	C_{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1.0 \text{ MHz}$		6	15	pF

■ hFE Classification

Marking	CQ	CR	CS
h_{FE}	85~170	120~240	170~340