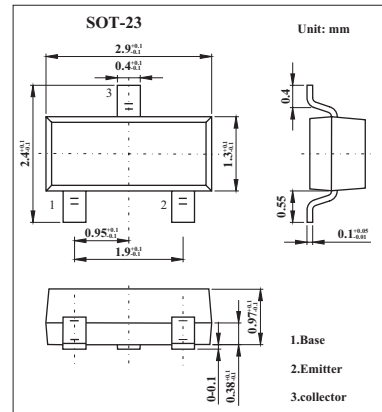


2SB709A

■ Features

- High forward current transfer ratio hFE.
- Mini 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 _{CBO}	-45	V
Collector-emitter voltage	V _{CEO}	-45	V
Emitter-base voltage	V _{EBO}	-7	V
Collector current	I _C	-100	mA
Peak collector current	I _{CP}	-200	mA
Collector power dissipation	P _C	200	mW
Junction temperature	T _J	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector-base voltage	V _{CBO}	I _C = -10 μA, I _E = 0	-45			V
Collector-emitter voltage	V _{CEO}	I _C = -2 mA, I _B = 0	-45			V
Emitter-base voltage	V _{EBO}	I _E = -10 μA, I _C = 0	-7			V
Collector-base current	I _{CBO}	V _{CB} = -20 V, I _E = 0 A			-0.1	μA
Collector-emitter current	I _{CEO}	V _{CE} = -10 V, I _B = 0 A			-100	μA
Forward current transfer ratio	h _{FE}	V _{CE} = -10 V, I _C = -2 mA	160		460	
Collector to emitter saturation voltage	V _{CE(sat)}	I _C = -100 mA, I _B = -10 mA		-0.3	-0.5	V
Transition frequency	f _T	V _{CB} = -10 V, I _E = 1 mA, f = 200 MHz		80		MHz
Collector output capacitance	C _{ob}	V _{CB} = -10V, I _E = 0, f = 1.0MHz		2.7		pF

■ hFE Classification

Marking	BQ	BR	BS
hFE	160~260	210~340	290~460