

2SB0710, 2SB0710A (2SB710, 2SB710A)

Silicon PNP epitaxial planer type

For general amplification

Complementary to 2SD0602 (2SD602) and 2SD0602A (2SD602A)

■ 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 (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	-30	V
2SB0710A	2SB0710A	-60	
Collector to emitter voltage	V_{CEO}	-25	V
2SB0710A	2SB0710A	-50	
Emitter to base voltage	V_{EBO}	-5	V
Peak collector current	I_{CP}	-1	A
Collector current	I_C	-0.5	A
Collector power dissipation	P_C	200	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 ~ +150	°C

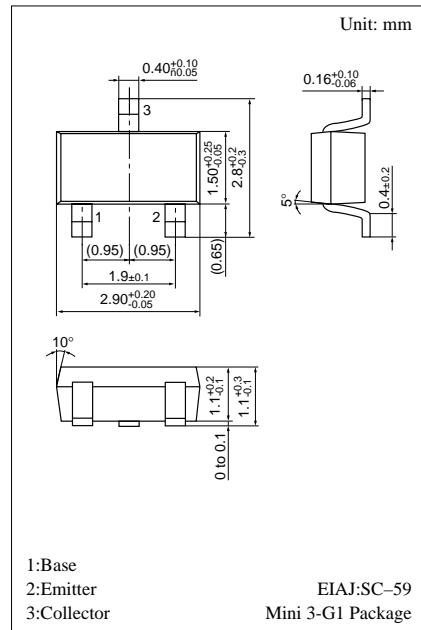
■ Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = -20V, I_E = 0$			-0.1	μA
Collector to base voltage	V_{CBO}	$I_C = -10\mu A, I_E = 0$	-30			V
2SB0710A	2SB0710A		-60			
Collector to emitter voltage	V_{CEO}	$I_C = -10mA, I_B = 0$	-25			V
2SB0710A	2SB0710A		-50			
Emitter to base voltage	V_{EBO}	$I_E = -10\mu A, I_C = 0$	-5			V
Forward current transfer ratio	h_{FE1}^{*1}	$V_{CE} = -10V, I_C = -150mA^{*2}$	85		340	
2SB0710	h_{FE2}	$V_{CE} = -10V, I_C = -500mA^{*2}$	40			
Collector to emitter saturation voltage	$V_{CE(sat)}$	$I_C = -300mA, I_B = -30mA^{*2}$		-0.35	-0.6	V
Base to emitter saturation voltage	$V_{BE(sat)}$	$I_C = -300mA, I_B = -30mA^{*2}$		-1.1	-1.5	V
Transition frequency	f_T	$V_{CB} = -10V, I_E = 50mA, f = 200MHz$		200		MHz
Collector output capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$		6	15	pF

^{*2} Pulse measurement

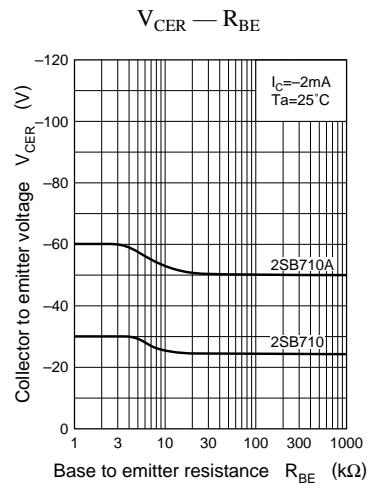
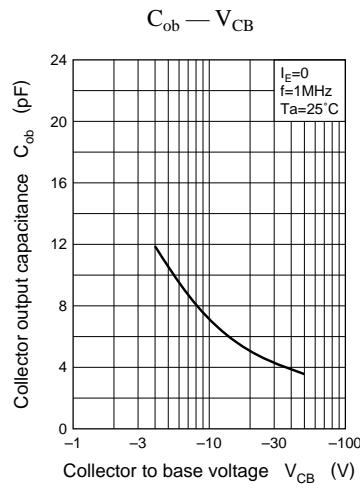
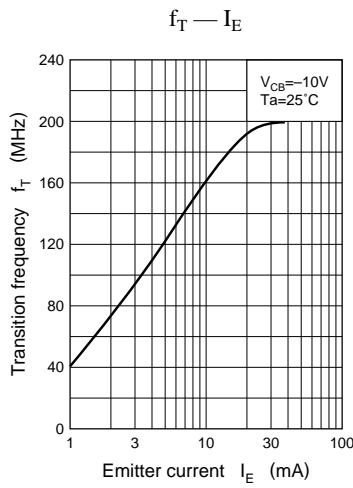
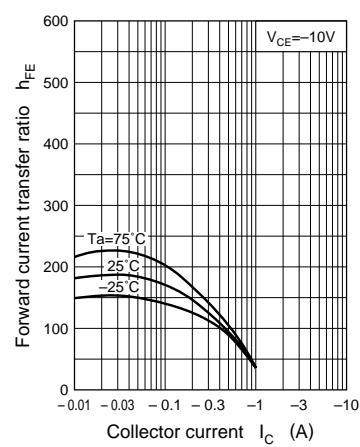
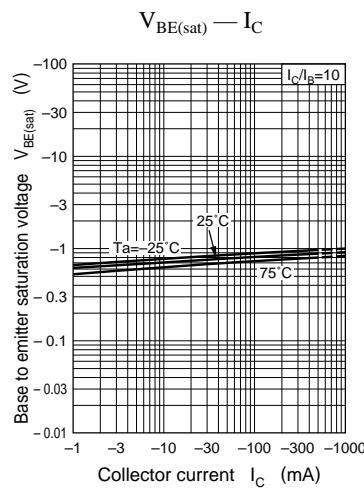
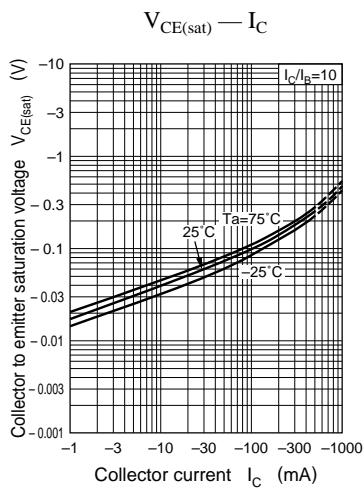
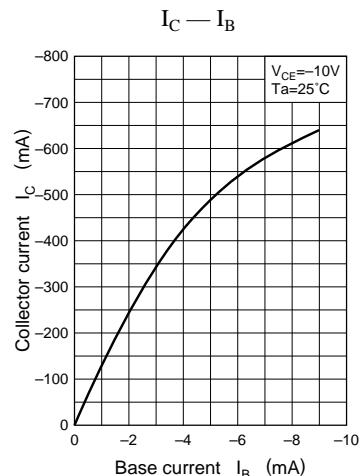
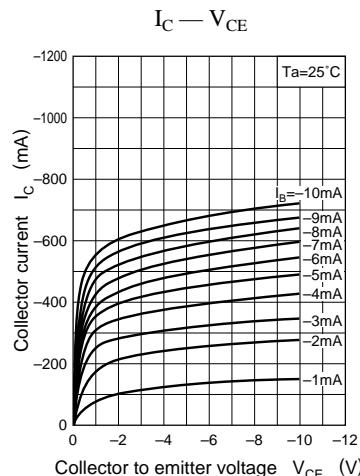
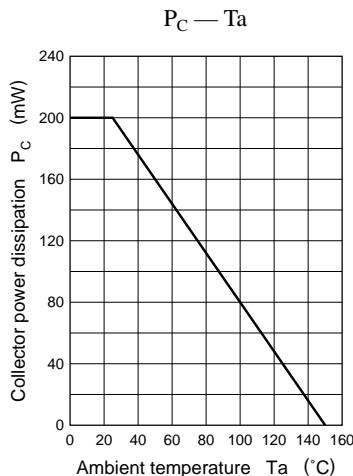
*1 h_{FE1} Rank classification

Rank	Q	R	S
h_{FE1}	85 ~ 170	120 ~ 240	170 ~ 340
Marking Symbol	2SB0710	CQ	CR
	2SB0710A	DQ	DR
		CS	DS



Marking symbol : C(2SB0710)
D(2SB0710A)

Note.) The Part numbers in the Parenthesis show conventional part number.



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