Transistor **Panasonic**

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

Silicon PNP epitaxial planer type

For general amplification

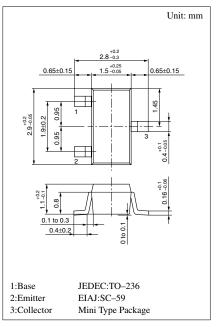
Complementary to 2SD0602 (2SD602) and 2SD0602A (2SD602A)

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	2SB0710	V	-30	V
base voltage	2SB0710A	V_{CBO}	-60	v
Collector to	2SB0710	37	-25	V 7
emitter voltage	2SB0710A	V_{CEO}	-50	V
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



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

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	μΑ
Collector to base	2SB0710	17	I 100A I 0	-30			V
voltage	2SB0710A	V_{CBO}	$I_{\rm C} = -10\mu A, I_{\rm E} = 0$	-60			
Collector to emitter	2SB0710	**		-25			V
voltage	2SB0710A	V_{CEO}	$I_C = -10 \text{mA}, I_B = 0$	-50			
Emitter to base voltage	Emitter to base voltage		$I_E = -10\mu A, I_C = 0$	-5			V
Forward current transfer ratio		h _{FE1} *1	$V_{CE} = -10V, I_{C} = -150mA^{*2}$	85		340	
		h _{FE2}	$V_{CE} = -10V, I_{C} = -500 \text{mA}^{*2}$	40			
Collector to emitter saturation voltage V _C		V _{CE(sat)}	$I_C = -300 \text{mA}, I_B = -30 \text{mA}^{*2}$		- 0.35	- 0.6	V
Base to emitter saturation voltage V		V _{BE(sat)}	$I_C = -300 \text{mA}, I_B = -30 \text{mA}^{*2}$		-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

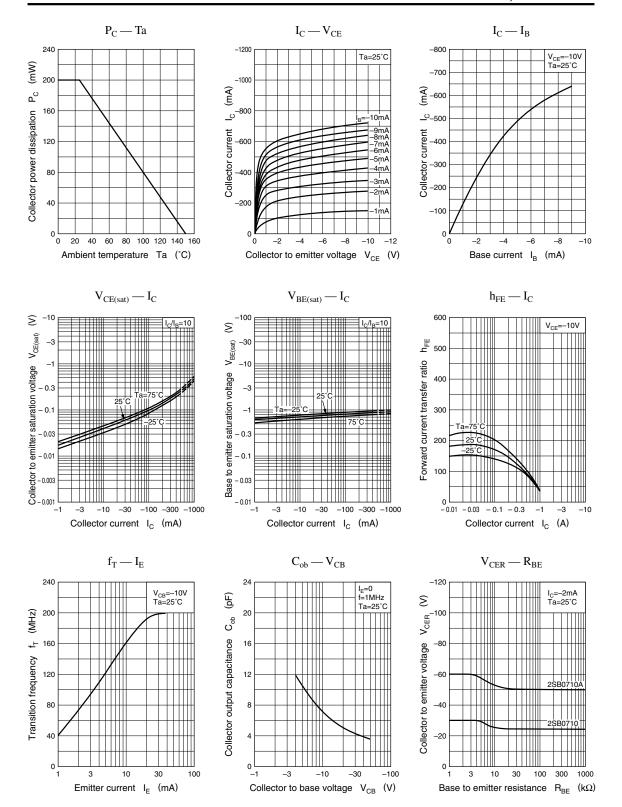
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^{*1}h_{FE1} Rank classification

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

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

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2

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