# 2SB0710

### Silicon PNP epitaxial planar type

For general amplification Complementary to 2SD0602

#### Features

- Large collector current I<sub>C</sub>
- Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing

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

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V <sub>CBO</sub>	-30	V	
Collector-emitter voltage (Base open)	V <sub>CEO</sub>	-25	V	
Emitter-base voltage (Collector open)	V <sub>EBO</sub>	-5	V	
Collector current	I <sub>C</sub>	- 0.5	А	
Peak collector current	I <sub>CP</sub>	-1	А	
Collector power dissipation	P <sub>C</sub>	200	mW	
Junction temperature	Tj	150	°C	
Storage temperature	T <sub>stg</sub>	-55 to +150	°C	

- Package
- Code Mini3-G1
- Pin Name
  - 1: Base
- 2: Emitter
- 3: Collector

Marking Symbol: C

#### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V <sub>CBO</sub>	$I_{\rm C} = -10 \ \mu A, \ I_{\rm E} = 0$	-30			V
Collector-emitter voltage (Base open)	V <sub>CEO</sub>	$I_{\rm C} = -10 \text{ mA}, I_{\rm B} = 0$	-25			V
Emitter-base voltage (Collector open)	V <sub>EBO</sub>	$I_{\rm E} = -10 \ \mu A, \ I_{\rm C} = 0$	-5			V
Collector-base cutoff current (Emitter open)	I <sub>CBO</sub>	$V_{CB} = -20 \text{ V}, I_E = 0$			- 0.1	μΑ
Forward current transfer ratio *1	h <sub>FE1</sub> *2	$V_{CE} = -10 \text{ V}, I_C = -150 \text{ mA}$	85		340	—
	h <sub>FE2</sub>	$V_{CE} = -10 \text{ V}, I_C = -500 \text{ mA}$	40			
Collector-emitter saturation voltage *1	V <sub>CE(sat)</sub>	$I_{\rm C} = -300 \text{ mA}, I_{\rm B} = -30 \text{ mA}$		- 0.35	- 0.60	V
Base-emitter saturation voltage *1	V <sub>BE(sat)</sub>	$I_{\rm C} = -300 \text{ mA}, I_{\rm B} = -30 \text{ mA}$		-1.1	-1.5	V
Transition frequency	f <sub>T</sub>	$V_{CB} = -10 \text{ V}, I_E = 50 \text{ mA}, f = 200 \text{ MHz}$		200		MHz
Collector output capacitance	C <sub>ob</sub>	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		6	15	pF
(Common base, input open circuited)						

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

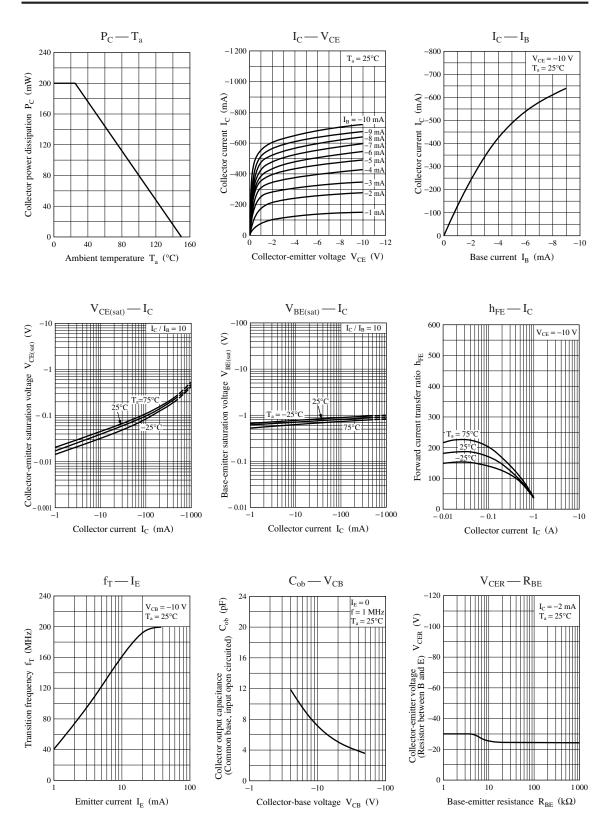
2. \*1: Pulse measurement

\*2: Rank classification

Rank	Q	R	S	No-rank
h <sub>FE1</sub>	85 to 170	120 to 240	170 to 340	85 to 340
Marking symbol	CQ	CR	CS	С

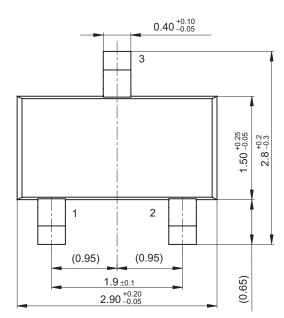
Product of no-rank is not classified and have no marking symbol for rank.

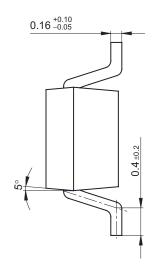
## Panasonic

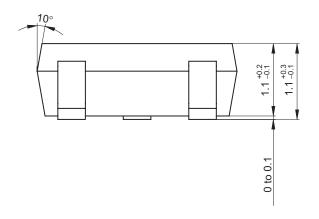


### Mini3-G1

Unit: mm







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