Panasonic

Unit: mm

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

Silicon PNP epitaxial planar type

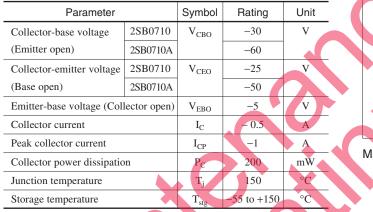
For general amplification

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

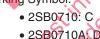
Features

- \bullet 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 $T_a = 25^{\circ}C$







• 2580710A.D

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage 2SB0710	V _{CBO}	$I_{\rm C} = -10 \ \mu {\rm A}, I_{\rm E} = 0$	-30			V
(Emitter open) 2SB0710A		R-V SON	-60			
Collector-emitter voltage 2SB0710	V _{CEO}	$I_{\rm C} = -10 \text{ mA}, I_{\rm B} = 0$	-25			V
(Base open) 2SB0710A			-50			
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = -10$ µA, $I_{\rm C} = 0$	-5			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -20 V_{cE} = 0$			- 0.1	μΑ
Forward current transfer ratio *1	h _{FE1} *2	$V_{CE} = -10$ V, $I_C = -150$ mA	85		340	—
	h _{FE2}	$V_{CE} = 10 \text{ V}, \text{ I}_{C} = -500 \text{ mA}$	40			—
Collector-emitter saturation voltage *1	V _{CE(sat)}	$I_{\rm C} = -300 \text{ mA}, I_{\rm B} = -30 \text{ mA}$		- 0.35	- 0.60	V
Base-emitter saturation voltage *1	V _{BE(sat)}	$I_{\rm C} = -300 \text{ mA}, I_{\rm B} = -30 \text{ mA}$		-1.1	-1.5	V
Transition frequency	¥ _T	$V_{CB} = -10 \text{ V}, I_E = 50 \text{ mA}, f = 200 \text{ MHz}$		200		MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		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

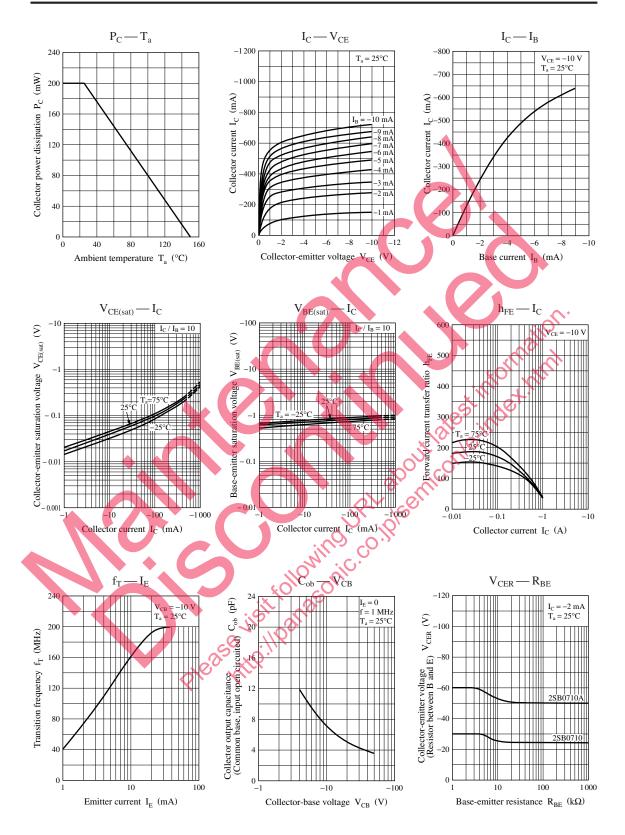
*2: Rank classification

Rank		Q	R	S	No-rank	
h _I	FE1	85 to 170	120 to 240	170 to 340	85 to 340	
Marking	2SB0710	CQ	CR	CS	С	
symbol	2SB0710A	DQ	DR	DS	D	

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

Note) The part numbers in the parenthesis show conventional part number.

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