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

Silicon PNP epitaxial planar type

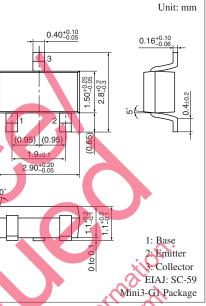
For general amplification

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 $T_a = 25^{\circ}C$ Symbol Parameter Rating Unit V Collector-base voltage 2SB0710 V_{CBO} -30(Emitter open) 2SB0710A -60 2SB0710 V_{CEO} -25ν Collector-emitter voltage (Base open) 2SB0710A -50 Emitter-base voltage (Collector open) VEBO -5 V Collector current I_C - 0.5 Peak collector current I_{CP} -1A Collector power dissipation Pc 200 mŴ Junction temperature T 150 °C 55 to +150 °Ċ Storage temperature T_{sts}



- Marking Symbol: • 2SB0710: C
 - 23607 TUA.

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

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Parameter	S	Symbol		Conditions	×0° · (Min	Тур	Max	Unit
Collector-base voltage 29	SB0710	V _{CBO}	$I_{\rm C} = -10$	$\mu A, I_E = 0$	S. C.	-30			V
(Emitter open) 25	SB0710A				S	-60			
Collector-emitter voltage 29	SB0710	V _{CEO}	$I_{\rm C} = -10$	mA, $I_B = 0$	181	-25			V
(Base open) 29	SB0710A			in o co	•) *	-50			
Emitter-base voltage (Collector	r open)	V _{EBO}	$I_{\rm E} = -10$	μΑ, I _C = 0		-5			V
Collector-base cutoff current (Emitt	ter open)	I _{CBO}	V _{CB} = -2	$0 V I_{E} = 0$				- 0.1	μΑ
Forward current transfer ratio *	1	h _{FE1} *2	$V_{\rm CE} = -1$	$0, V, I_{\rm C} = -150 \text{ m}$	А	85		340	
		h _{FE2}	V _{CE} = 1	0 V, $I_C = -500 \text{ m}$	А	40			
Collector-emitter saturation vo	ltage *1	V _{CE(sat)}	$I_{\rm C} = -300$	$0 \text{ mA}, \text{ I}_{\text{B}} = -30 \text{ m}$	А		- 0.35	- 0.60	V
Base-emitter saturation voltage	e *1	V _{BE(sat)}	$I_{\rm C} = -300$	M = -30 m	А		-1.1	-1.5	V
Transition frequency	016	¥ _T	$V_{CB} = -1$	0 V, $I_E = 50 \text{ mA}$,	f = 200 MHz		200		MHz
Collector output capacitance		C _{ob}	$V_{CB} = -1$	0 V, $I_E = 0, f = 1$	MHz		6	15	pF
(Common base, input open circ	cuited)								

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

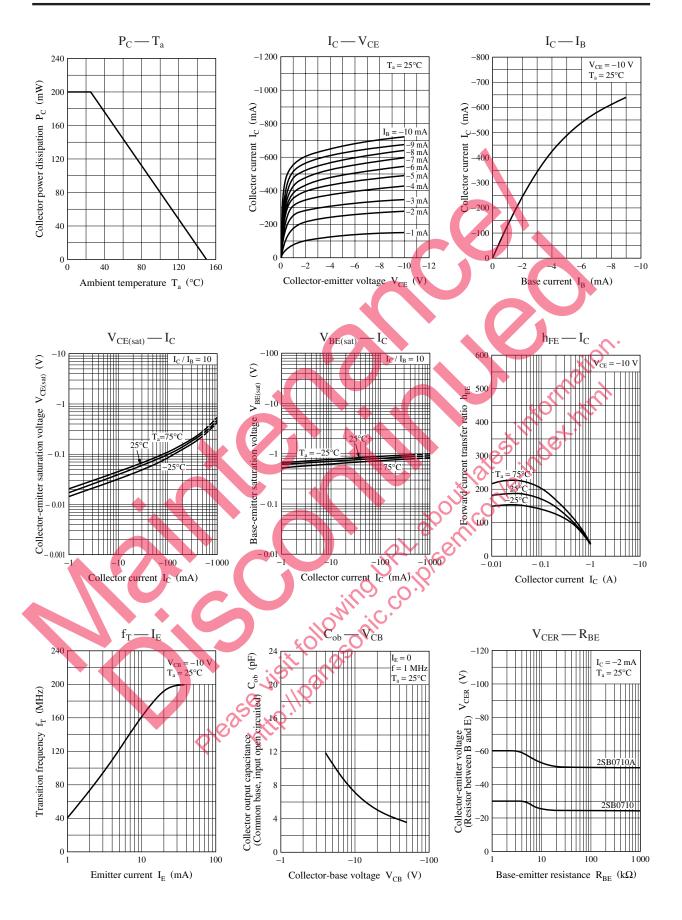
2. *1: Pulse measurement

*2: Rank classification

Ra	Rank		R	S	No-rank	
h _I	h _{FE1}		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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