

2SB0621A

Silicon PNP epitaxial planar type

For low-frequency driver amplification

Complementary to 2SD0592A

■ Features

- Low collector-emitter saturation voltage $V_{CE(sat)}$
- High transition frequency f_T

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

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V_{CBO}	-60	V
Collector-emitter voltage (Base open)	V_{CEO}	-50	V
Emitter-base voltage (Collector open)	V_{EBO}	-5	V
Collector current	I_C	-1	A
Peak collector current	I_{CP}	-1.5	A
Collector power dissipation	P_C	750	mW
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

■ Package

- Code
TO-92B-B1
- Pin Name
 1. Emitter
 2. Collector
 3. Base

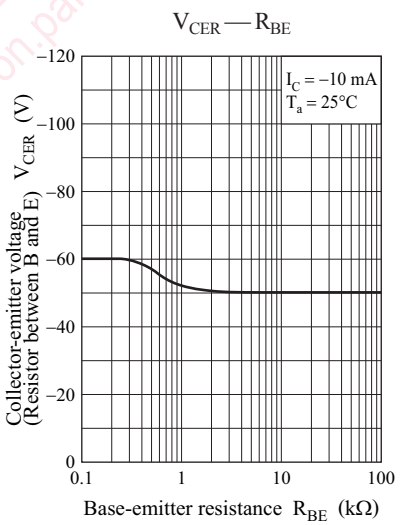
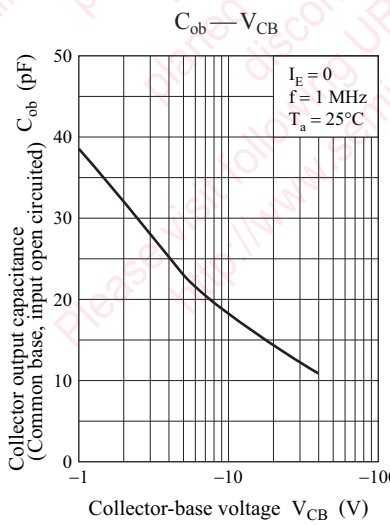
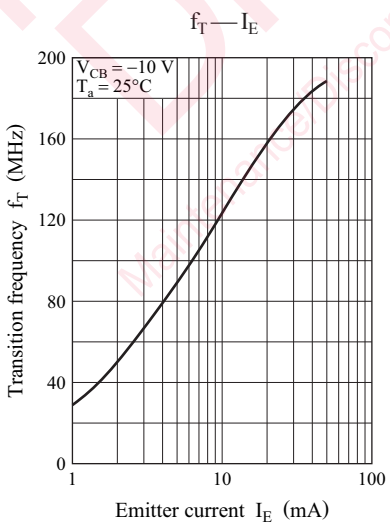
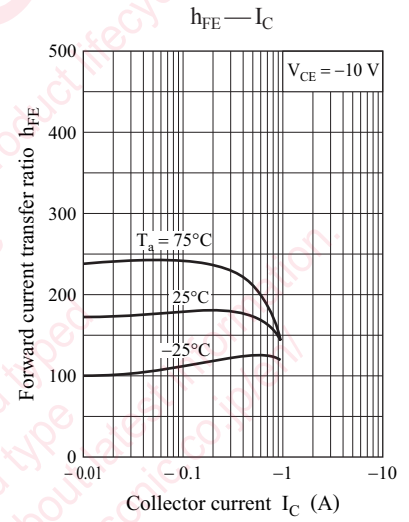
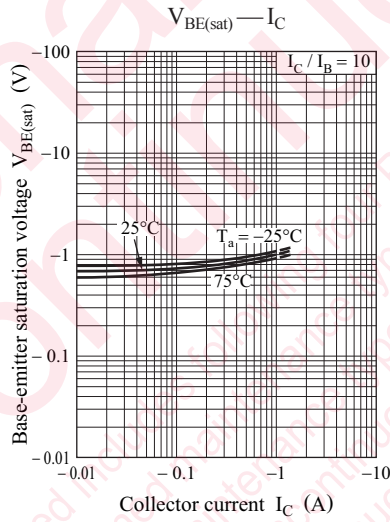
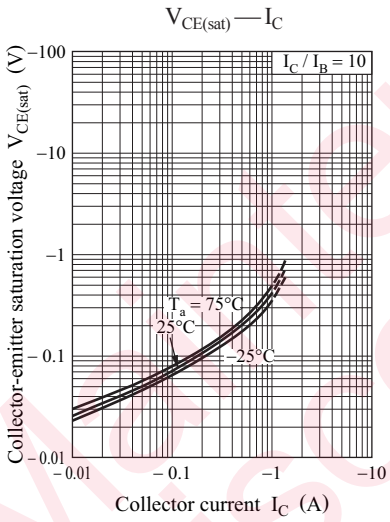
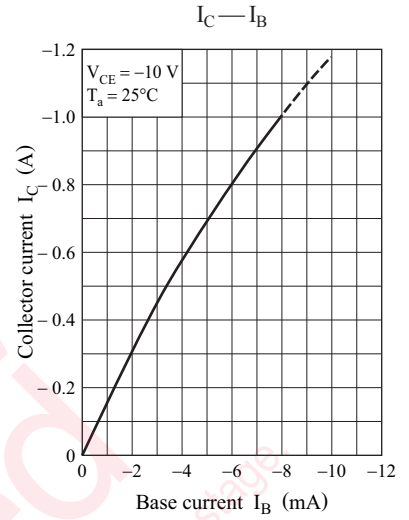
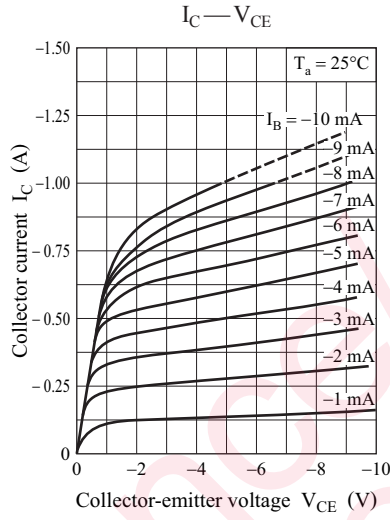
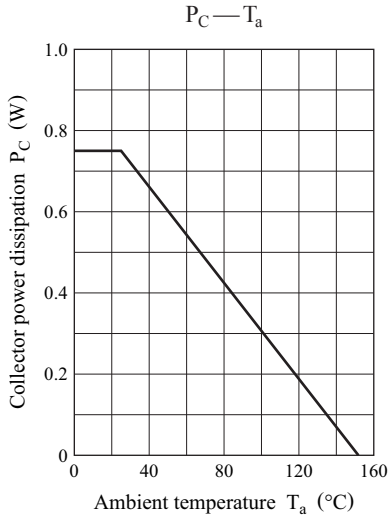
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

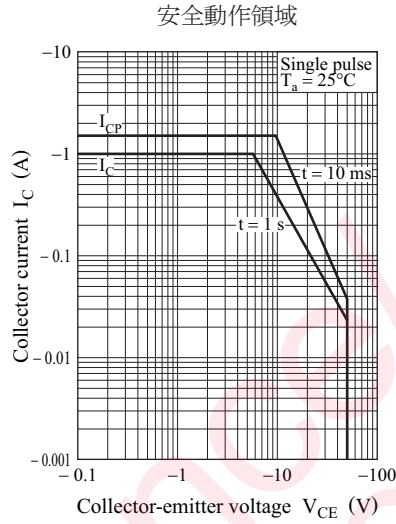
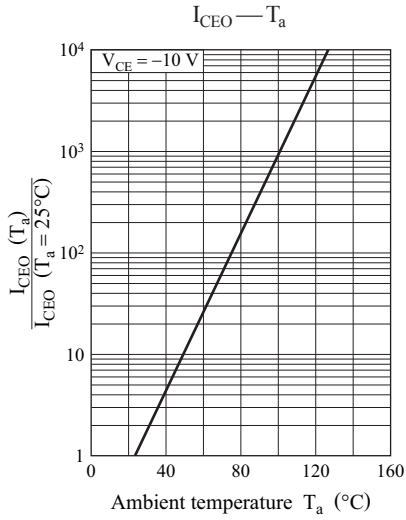
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-base voltage (Emitter open)	V_{CBO}	$I_C = -10 \mu\text{A}, I_E = 0$	-60			V
Collector-emitter voltage (Base open)	V_{CEO}	$I_C = -2 \text{mA}, I_B = 0$	-50			V
Emitter-base voltage (Collector open)	V_{EBO}	$I_E = -10 \mu\text{A}, I_C = 0$	-5			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = -20 \text{V}, I_E = 0$			-0.1	μA
Forward current transfer ratio	h_{FE1}^*	$V_{CE} = -10 \text{V}, I_C = -500 \text{mA}$	85		340	—
	h_{FE2}	$V_{CE} = -5 \text{V}, I_C = -1 \text{A}$	50			—
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -500 \text{mA}, I_B = -50 \text{mA}$		-0.2	-0.4	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -500 \text{mA}, I_B = -50 \text{mA}$		-0.85	-1.2	V
Transition frequency	f_T	$V_{CB} = -10 \text{V}, I_E = 50 \text{mA}, f = 200 \text{MHz}$		200		MHz
Collector output capacitance (Common base, input open circuited)	C_{ob}	$V_{CB} = -10 \text{V}, I_E = 0, f = 1 \text{MHz}$		20	30	pF

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

2. *: Rank classification

Rank	Q	R	S
h_{FE1}	85 to 170	120 to 240	170 to 340





Maintenance/Discontinued

Maintenance/Discontinued includes following four Product lifecycle stage.

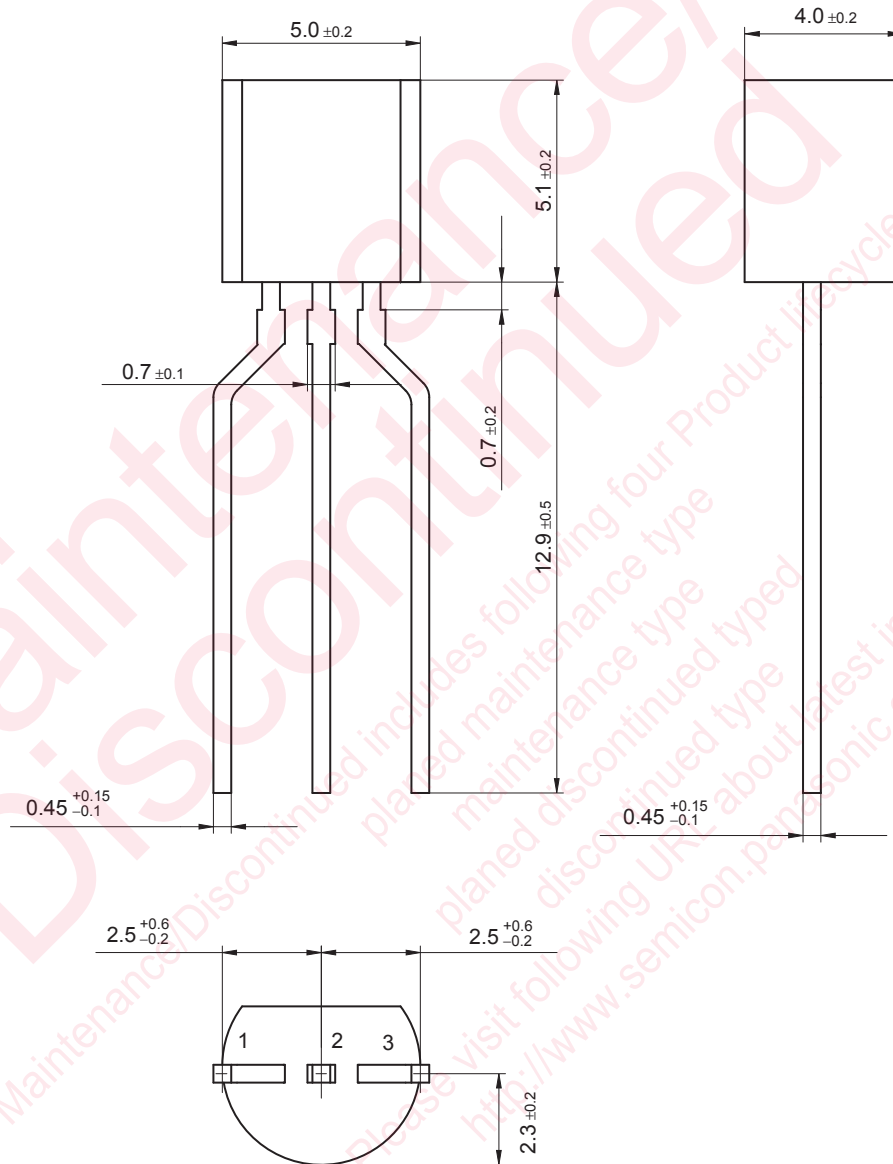
- planned maintenance type
- planned maintenance type
- planned discontinued type
- discontinued type

Please visit following URL about latest information.

http://www.semicon.panasonic.co.jp/en/

TO-92-B1

Unit: mm



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