

2SB0710A

Silicon PNP epitaxial planar type

For general amplification

Complementary to 2SD0602A

■ Features

- Large collector current I_C
- Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing

■ 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	-0.5	A
Peak collector current	I_{CP}	-1	A
Collector power dissipation	P_C	200	mW
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

■ Package

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

■ Marking Symbol: D

■ 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}	$I_C = -10 \text{mA}, I_B = 0$	-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 *1	h_{FE1} *2	$V_{CE} = -10 \text{V}, I_C = -150 \text{mA}$	85		340	—
	h_{FE2}	$V_{CE} = -10 \text{V}, I_C = -500 \text{mA}$	40			—
Collector-emitter saturation voltage *1	$V_{CE(sat)}$	$I_C = -300 \text{mA}, I_B = -30 \text{mA}$		-0.35	-0.60	V
Base-emitter saturation voltage *1	$V_{BE(sat)}$	$I_C = -300 \text{mA}, I_B = -30 \text{mA}$		-1.1	-1.5	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}	$V_{CB} = -10 \text{V}, I_E = 0, f = 1 \text{MHz}$		6	15	pF

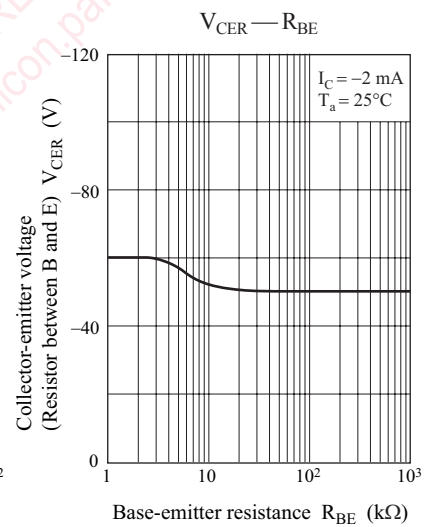
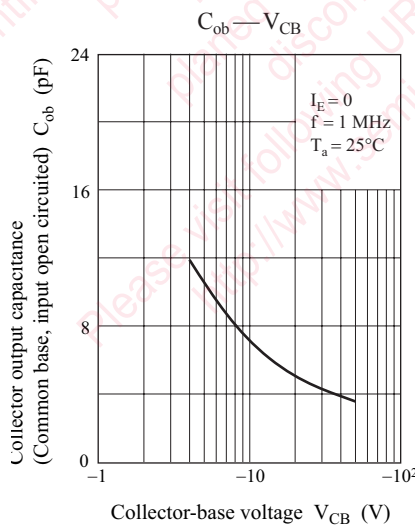
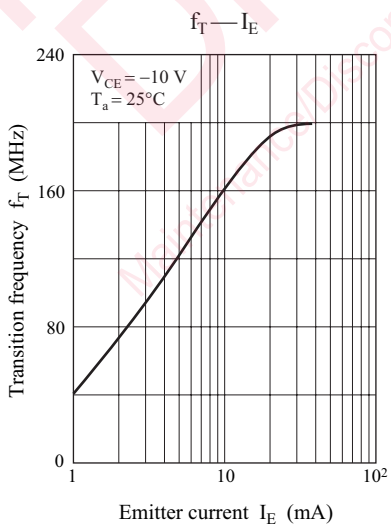
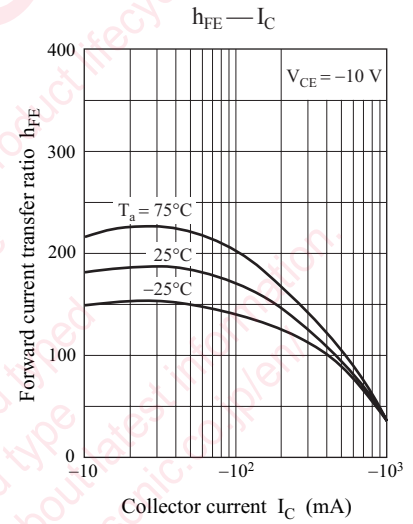
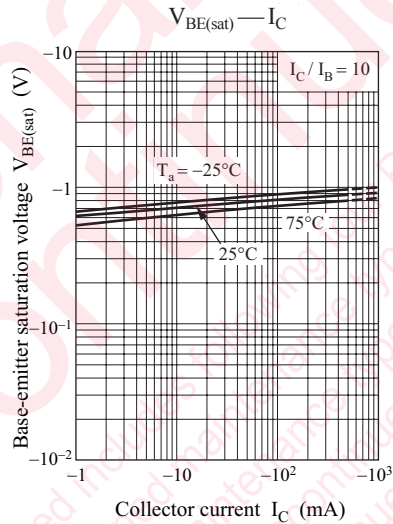
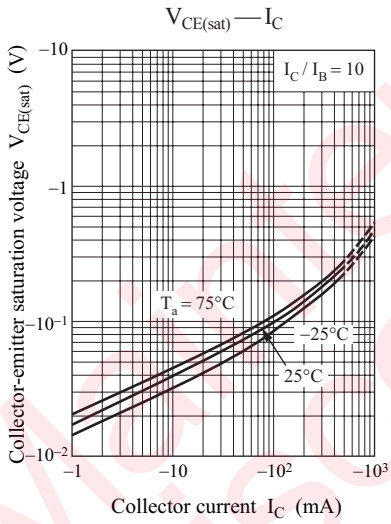
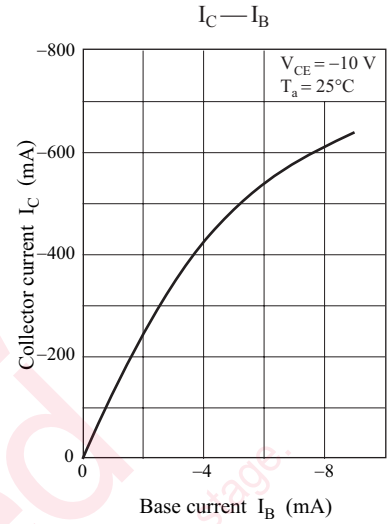
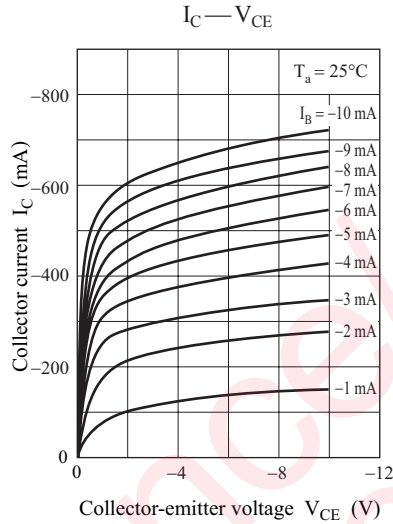
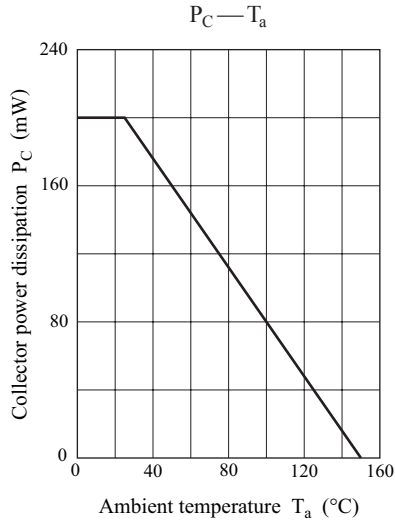
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. *1: Pulse measurement

*2: Rank classification

Rank	Q	R	S	No-rank
h_{FE1}	85 to 170	120 to 240	170 to 340	85 to 340
Marking symbol	DQ	DR	DS	D

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



utions in using the technical information and scribed in this book

book is to be exported or provided to non-residents, the laws and
d to security export control, must be observed.

y to show the main characteristics and application circuit examples
property right or other right owned by Panasonic Corporation or any
company as to the infringement upon any such right owned by any
information described in this book.

standard applications or general electronic equipment (such as office
and household appliances).

g applications:

obiles, traffic control equipment, combustion equipment, life support
reliability are required, or if the failure or malfunction of the prod-

are subject to change without notice for modification and/or im-
se of the products, therefore, ask for the most up-to-date Product
atisfy your requirements.

bsolute maximum rating and the guaranteed operating conditions
) . Especially, please be careful not to exceed the range of absolute
r-off and mode-switching. Otherwise, we will not be liable for any

take into the consideration of incidence of break down and failure
n the systems such as redundant design, arresting the spread of fire
al injury, fire, social damages, for example, by using the products.

own and characteristics change due to external factors (ESD, EOS,
mounting or at customer's process. When using products for which
elf life and the elapsed time since first opening the packages.

partially, without the prior written permission of our company.

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- [View 2SB710A-\(TX\) on WIN SOURCE](#)
- [Panasonic Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management