

2SB0792

Silicon PNP epitaxial planar type

For high breakdown voltage low-noise amplification

■ Features

- High collector-emitter voltage (Base open) V_{CEO}
- Low noise voltage NV
- 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}	-150	V
Collector-emitter voltage (Base open)	V_{CEO}	-150	V
Emitter-base voltage (Collector open)	V_{EBO}	-5	V
Collector current	I_C	-50	mA
Peak collector current	I_{CP}	-100	mA
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: I

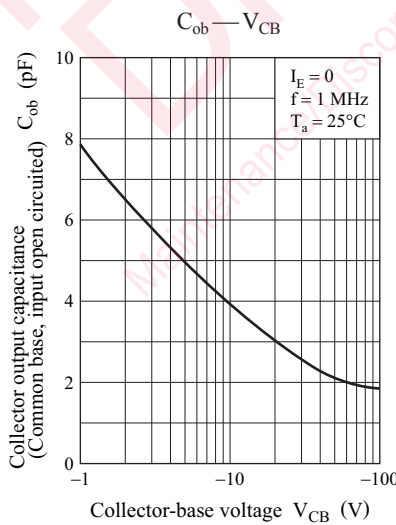
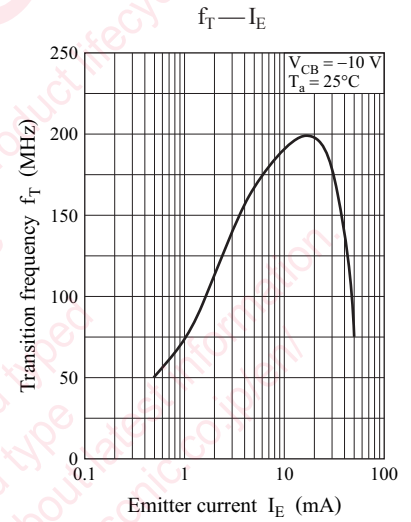
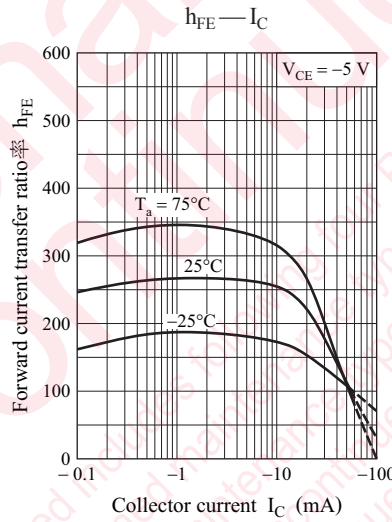
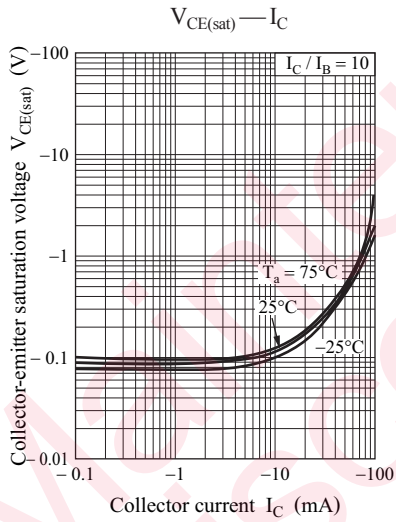
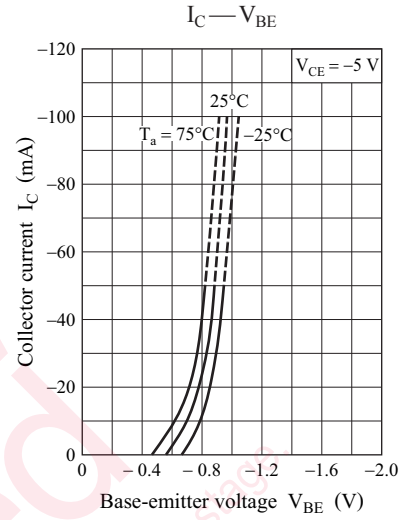
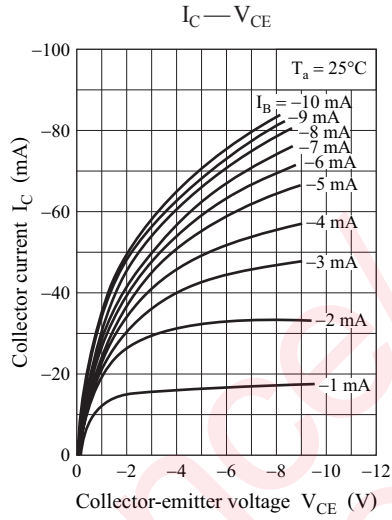
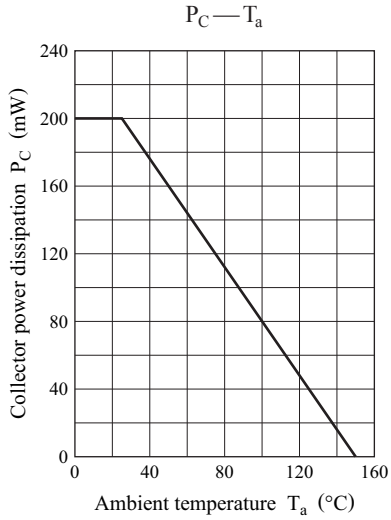
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-emitter voltage (Base open)	V_{CEO}	$I_C = -100 \mu\text{A}, I_B = 0$	-150			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}	$V_{CB} = -100 \text{V}, I_E = 0$			-1	μA
Forward current transfer ratio *	h_{FE}	$V_{CE} = -5 \text{V}, I_C = -10 \text{mA}$	130		450	—
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -30 \text{mA}, I_B = -3 \text{mA}$			-1	V
Transition frequency	f_T	$V_{CB} = -10 \text{V}, I_E = 10 \text{mA}, f = 200 \text{MHz}$		200		MHz
Collector output capacitance (Common base, input open circuited)	C_{ob}	$V_{CB} = -10 \text{V}, I_E = 0, f = 1 \text{MHz}$		4		pF
Noise voltage	NV	$V_{CB} = -10 \text{V}, I_C = -1 \text{mA}, G_V = 80 \text{dB}, R_g = 100 \text{k}\Omega, \text{Function} = \text{FLAT}$		150		mV

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

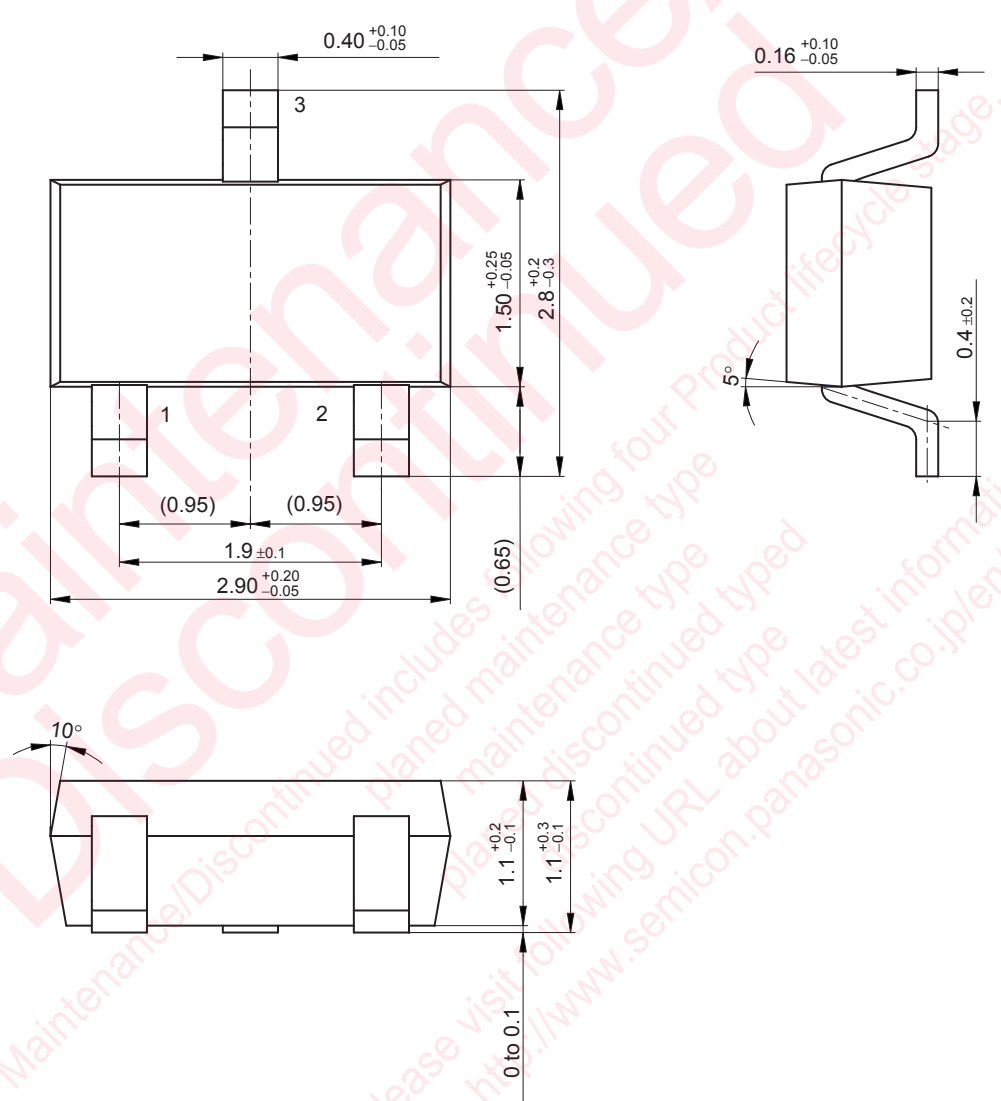
2. *: Rank classification

Rank	R	S	T
h_{FE}	130 to 220	185 to 330	260 to 450
Marking symbol	IR	IS	IT



Mini3-G1

Unit: mm



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