This product complies with the RoHS Directive (EU 2002/95/EC).

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.

■ Package

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

■ Marking Symbol: I

■ Absolute Maximum Ratings $T_a = 25°C$

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	°C
Storage temperature	T_{stg}	–55 to +150	°C

■ Electrical Characteristics $T_a = 25°C \pm 3°C$

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

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Maintenance/Discontinued includes following four Product lifecycle stage.
Planned maintenance type
Maintenance type
Planned discontinued type
Discontinued type
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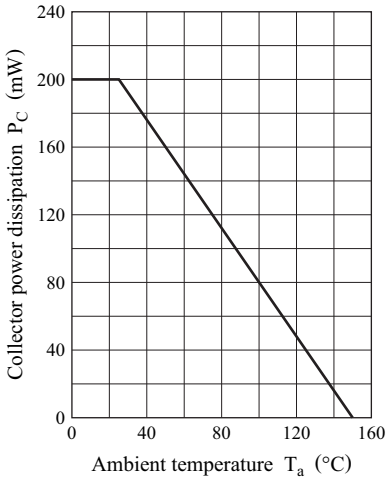
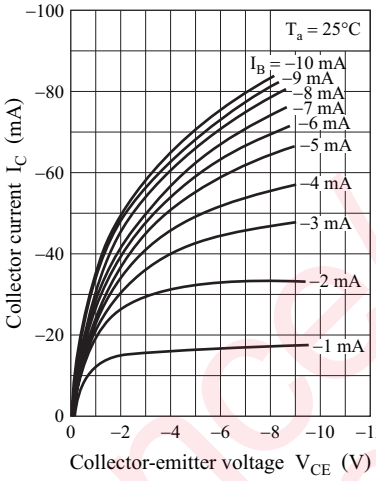
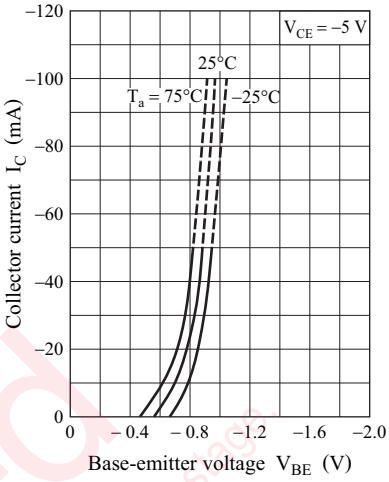
P_C — T_a



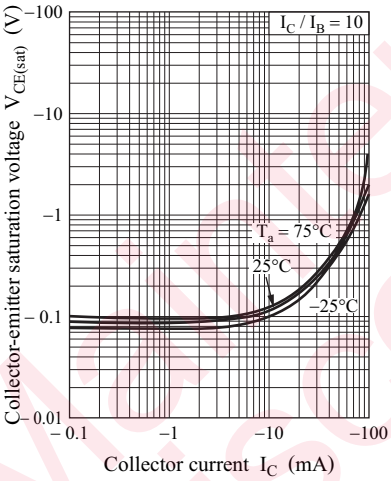
I_C — V_{CE}



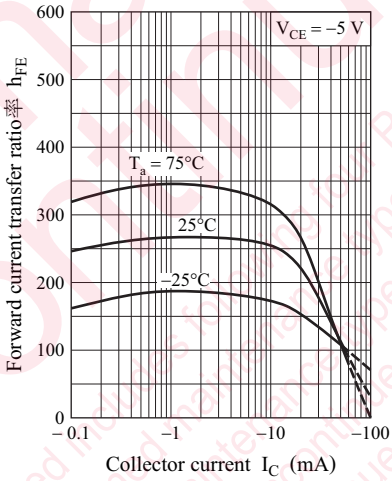
I_C — V_{BE}



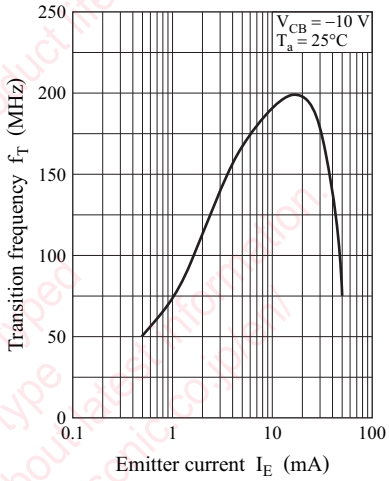
$V_{CE(sat)}$ — I_C



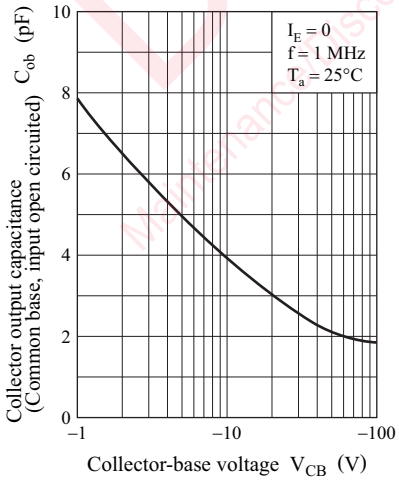
h_{FE} — I_C



f_T — I_E



C_{ob} — V_{CB}



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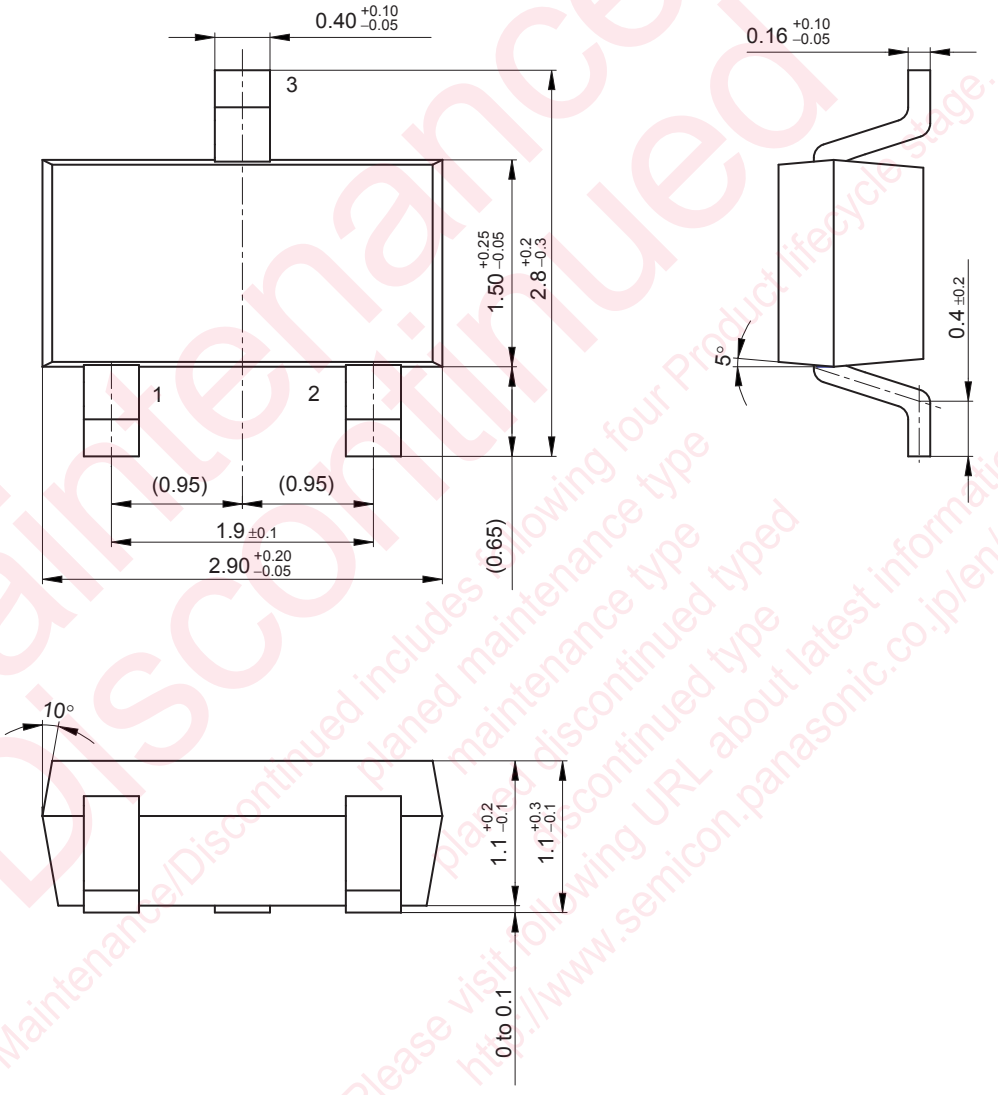
Mini3-G1

Unit: mm



Maintenance/ Discontinued
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planed maintenance type
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