

2SB1320

Silicon PNP epitaxial planar type

For low frequency power amplification

Complementary to 2SD1991

■ Features

- Allowing supply with the radial taping

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

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V_{CBO}	-30	V
Collector-emitter voltage (Base open)	V_{CEO}	-25	V
Emitter-base voltage (Collector open)	V_{EBO}	-7	V
Collector current	I_{C}	-100	mA
Peak collector current	I_{CP}	-200	mA
Collector power dissipation	P_{C}	400	mW
Junction temperature	T_{j}	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

■ Package

- Code
MT-1-A1
- 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}	$I_{\text{C}} = -10 \mu\text{A}, I_{\text{E}} = 0$	-30			V
Collector-emitter voltage (Base open)	V_{CEO}	$I_{\text{C}} = -2 \text{ mA}, I_{\text{B}} = 0$	-25			V
Emitter-base voltage (Collector open)	V_{EBO}	$I_{\text{E}} = -10 \mu\text{A}, I_{\text{C}} = 0$	-7			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{\text{CB}} = -20 \text{ V}, I_{\text{E}} = 0$			-1	μA
Collector-emitter cutoff current (Base open)	I_{CEO}	$V_{\text{CB}} = -20 \text{ V}, I_{\text{B}} = 0$			-1	μA
Forward current transfer ratio *	h_{FE}	$V_{\text{CE}} = -10 \text{ V}, I_{\text{C}} = -2 \text{ mA}$	160		460	—
Collector-emitter saturation voltage	$V_{\text{CE(sat)}}$	$I_{\text{C}} = -100 \text{ mA}, I_{\text{B}} = -10 \text{ mA}$			-1	V
Transition frequency	f_{T}	$V_{\text{CB}} = -10 \text{ V}, I_{\text{E}} = 1 \text{ mA}, f = 200 \text{ MHz}$		80		MHz
Collector output capacitance (Common base, input open circuited)	C_{ob}	$V_{\text{CB}} = -10 \text{ V}, I_{\text{E}} = 0, f = 1 \text{ MHz}$		3.5		pF

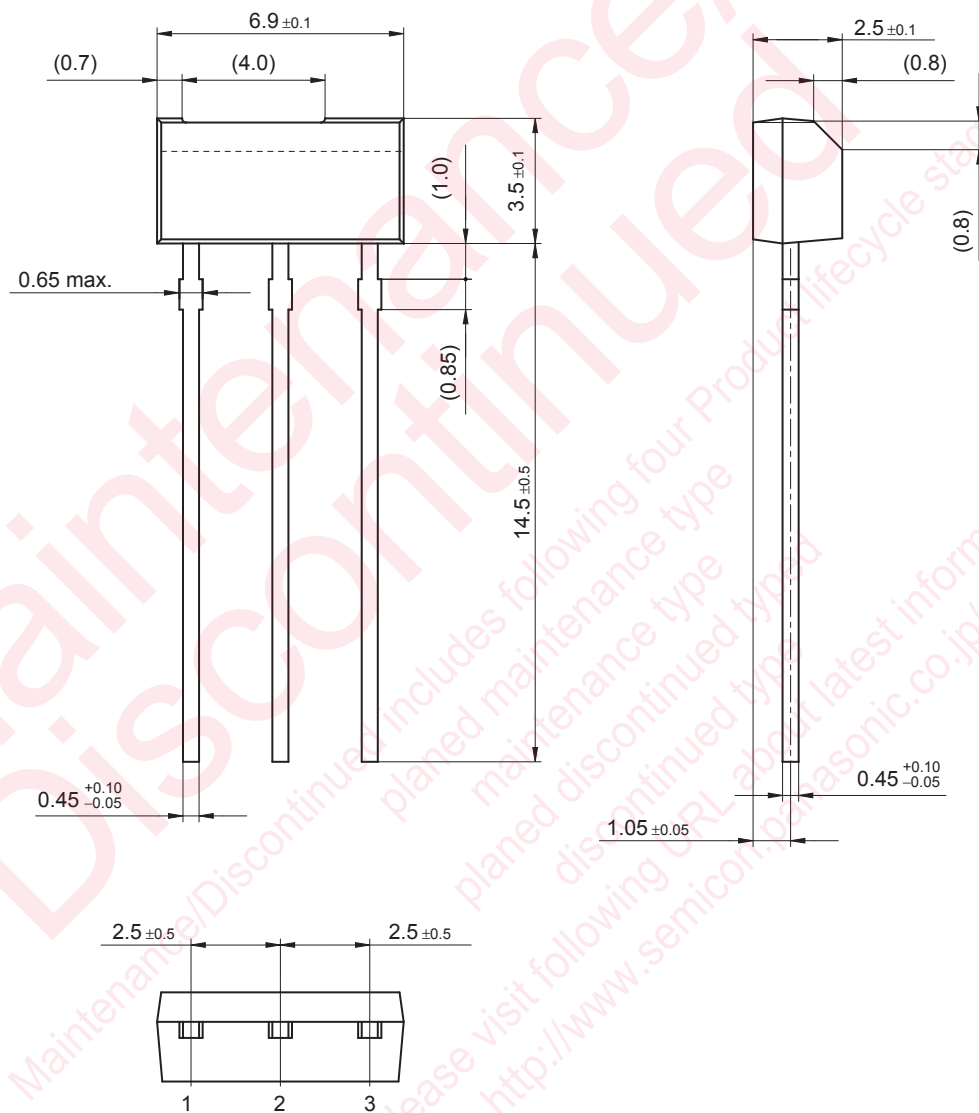
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. *: Rank classification

Rank	Q	R	S
h_{FE}	160 to 260	210 to 340	290 to 460

MT-1-A1

Unit: mm



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