2.0±0.2

4.0±0.2

0.75 max

(0.8)

Unit: mm

2SB1030, 2SB1030A

Silicon PNP epitaxial planar type

For low-frequency amplification Complementary to 2SD1423 and 2SD1423A

Features

- Optimum for high-density mounting
- Allowing supply with the radial taping

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



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

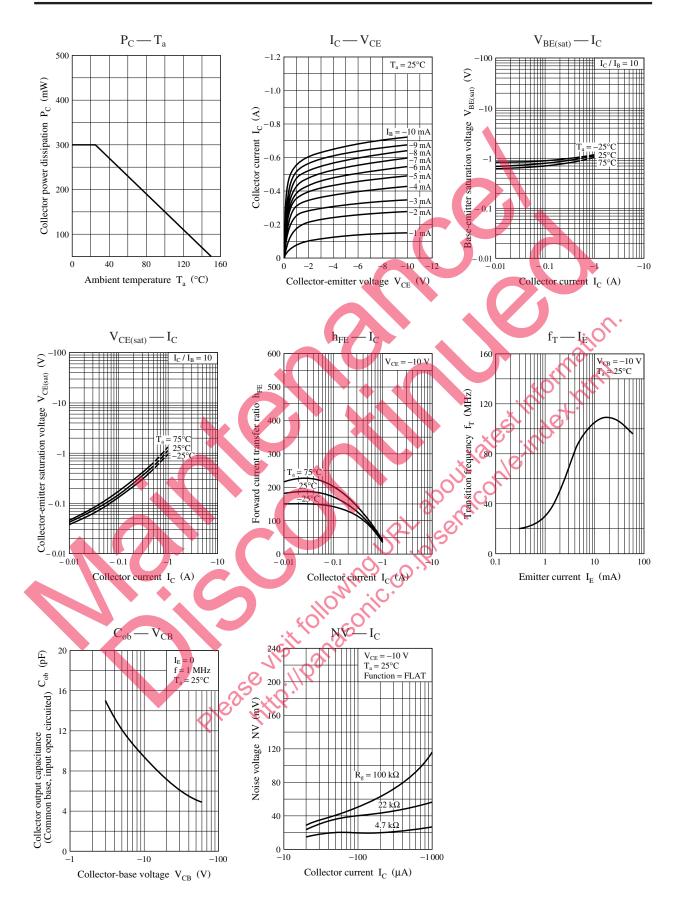
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage 2SB1030	V _{CBO}	$I_{\rm C} = -10 \ \mu A, I_{\rm E} = 0$	-30			V
(Emitter open) 2SB1030A		NOW NO.	-60			
Collector-emitter voltage 2SB1030	V _{CEO}	$I_{\rm Q} = 2$ mA, $I_{\rm B} = 0$	-25			V
(Base open) 2SB1030A		it of	-50			
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = -10 \ \mu A, I_{\rm C} = 0$	-7			V
Collector-base cutoff current (Emitter open)	ICBO	$V_{GB} = -20 \text{ V}, \text{ I}_{\text{E}} = 0$			- 0.1	μΑ
Collector-Emitter cutoff current (Base open)	I _{CEO}	$V_{\rm CE} = -20 \text{ V}, I_{\rm B} = 0$			-1	μΑ
Forward current transfer ratio	h _{FE1} *	$V_{CE} = -10 \text{ V}, I_C = -150 \text{ mA}$	85		340	
·	h _{FE2}	$V_{CE} = -10 \text{ V}, I_C = -500 \text{ mA}$	40			
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{C} = -300 \text{ mA}, I_{B} = -30 \text{ mA}$		- 0.35	- 0.60	V
Transition frequency	f_{T}	$V_{CB} = -10 \text{ V}, I_E = 50 \text{ mA}, f = 200 \text{ MHz}$		120		MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		3.5	15.0	pF
(Common base, input open circuited)						

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

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