2SB1030, 2SB1030A

Silicon PNP epitaxial planer type

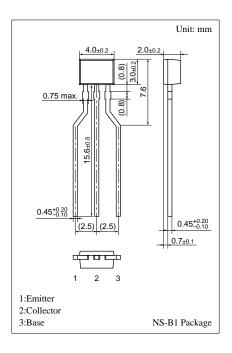
For low-frequency amplification
Complementary to 2SD1423 and 2SD1423A

Features

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

Absolute Maximum Ratings (Ta=25°C)

Parameter		Symbol	Ratings	Unit	
Collector to	2SB1030	V	-30	V	
base voltage	2SB1030A	V_{CBO}	-60	V	
Collector to	2SB1030	37	-25	3.7	
emitter voltage	2SB1030A	V_{CEO}	-50	V	
Emitter to base voltage		$V_{\rm EBO}$	-7	V	
Peak collector current		I_{CP}	-1	A	
Collector current		I_C	-0.5	A	
Collector power dissipation		P_{C}	300	mW	
Junction temperature		T_{j}	150	°C	
Storage temperature		T_{stg}	−55 ~ +150	°C	



Electrical Characteristics (Ta=25°C)

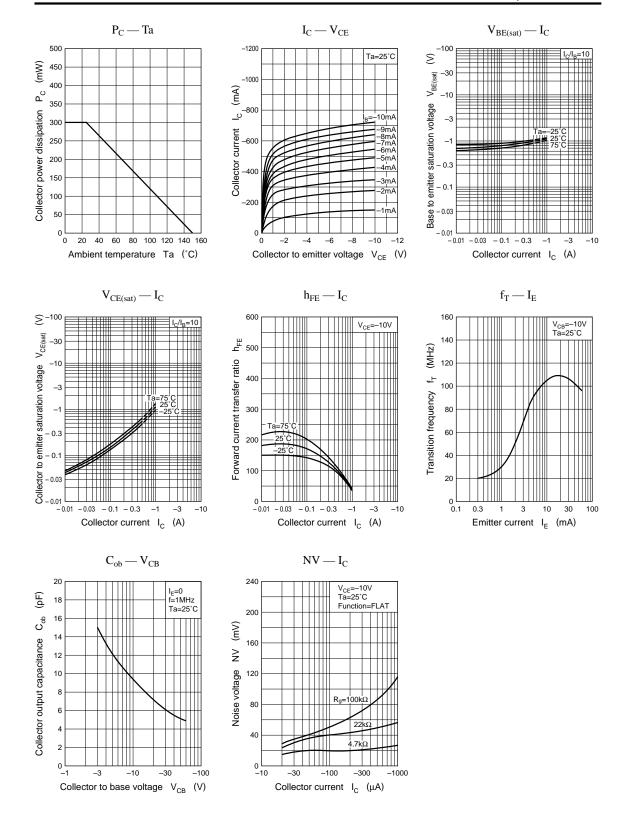
Paramete	Parameter Symbol Conditions		min	typ	max	Unit	
Collector cutoff current		I_{CBO}	$V_{CB} = -20V, I_{E} = 0$			-0.1	μΑ
		I _{CEO}	$V_{CE} = -20V, I_{B} = 0$			-1	μА
Collector to base	2SB1030	37	$I_C = -10\mu A, I_E = 0$	-30			V
voltage	2SB1030A	V _{CBO}		-60			
Collector to emitter	2SB1030	***	$I_{\rm C} = -2mA, I_{\rm B} = 0$	-25			- v
voltage	2SB1030A	V _{CEO}		-50			
Emitter to base voltage		V _{EBO}	$I_{\rm E} = -10\mu A, I_{\rm C} = 0$	-7			V
Forward current transfer ratio		h _{FE1} *1	$V_{CE} = -10V, I_{C} = -150mA^{*2}$	85		340	
		h _{FE2}	$V_{CE} = -10V, I_{C} = -500 \text{mA}^{*2}$	40			
Collector to emitter saturation voltage		V _{CE(sat)}	$I_C = -300 \text{mA}, I_B = -30 \text{mA}^{*2}$		- 0.35	-0.6	V
Transition frequency		f_T	$V_{CB} = -10V$, $I_E = 50mA$, $f = 200MHz$		200		MHz
Collector output capacitance		C _{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$		6	15	pF

^{*2} Pulse measurement

^{*1}hFE1 Rank classification

Rank	Q	R	S
h _{FE1}	85 ~ 170	120 ~ 240	170 ~ 340

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