2SB1321A

Silicon PNP epitaxial planar type

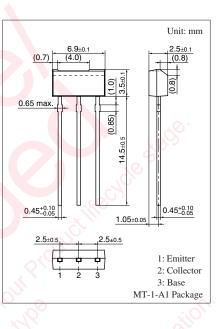
For low-frequency output amplification and driver amplification Complementary to 2SD1992A

Features

- Allowing supply with the radial taping
- Large collector power dissipation P_C (600 mW)

Absolute maximum natings $T_a = 25$ C						
Parameter	Symbol	Rating	Unit			
Collector-base voltage (Emitter open)	V _{CBO}	-60	V			
Collector-emitter voltage (Base open)	V _{CEO}	-50	V			
Emitter-base voltage (Collector open)	V _{EBO}	-7	v			
Collector current	I _C	- 0.5	А			
Peak collector current	I _{CP}	-1	А			
Collector power dissipation	P _C	600	mW			
Junction temperature	Tj	150	°C			
Storage temperature	T _{stg}	-55 to +150	°C			
			10			





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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = -10 \ \mu A, I_{\rm E} = 0$	-60	201		V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -2 {\rm mA}, I_{\rm B} = 0$	-50	2.		V
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)	I _{CBO}	$V_{CB} = -20 \text{ V}, I_E = 0$			- 0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = -20 \text{ V}, I_B = 0$			-1	μΑ
Forward current transfer ratio	h _{FE1} *2	$V_{CE} = -10 \text{ V}, I_C = -10 \text{ mA}$	85		340	
	h _{FE2} *1	$V_{CE} = -10 \text{ V}, I_C = -500 \text{ mA}$	40			—
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = -300 \text{ mA}, I_{\rm B} = -30 \text{ mA}$		- 0.35	- 0.60	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}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		6	15	pF

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

2. *1: Pulse measurement

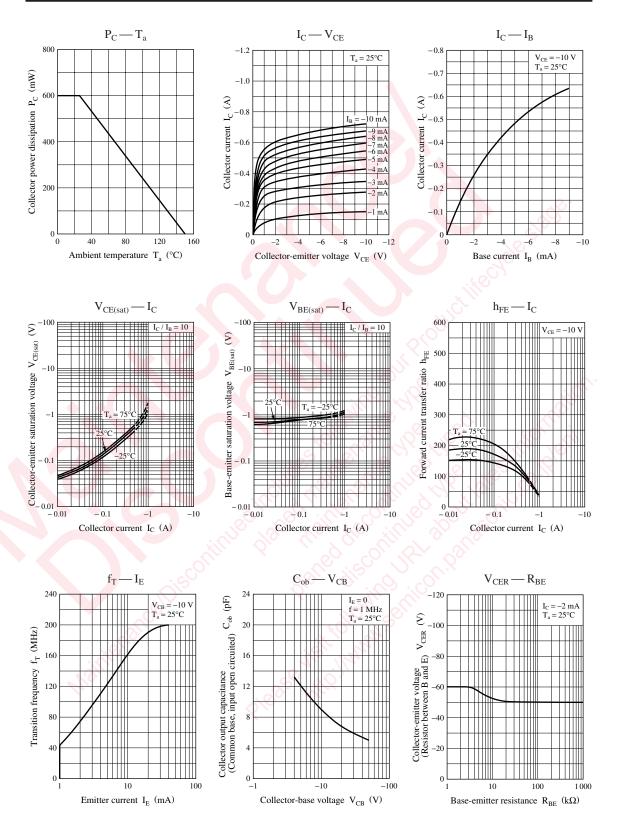
*2: Rank classification

Rank	Q	R	S	No-rank
$h_{\rm FE1}$	85 to 170	120 to 240	170 to 340	85 to 340

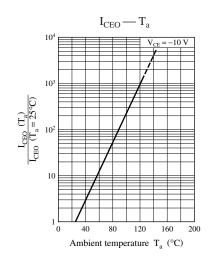
Product of no-rank is not classified and have no marking symbol for rank.

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