2SC3311A

Silicon NPN epitaxial planer type

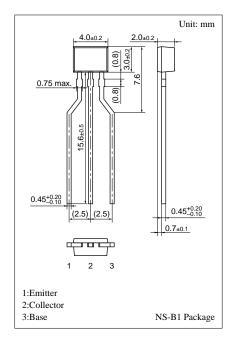
For low-frequency amplification Complementary to 2SA1309A

Features

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

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	60	V
Collector to emitter voltage	V_{CEO}	50	V
Emitter to base voltage	$V_{\rm EBO}$	7	V
Peak collector current	I_{CP}	200	mA
Collector current	I_{C}	100	mA
Collector power dissipation	P_{C}	300	mW
Junction temperature	T _j	150	°C
Storage temperature	$T_{\rm stg}$	−55 ~ +150	°C



Electrical Characteristics (Ta=25°C)

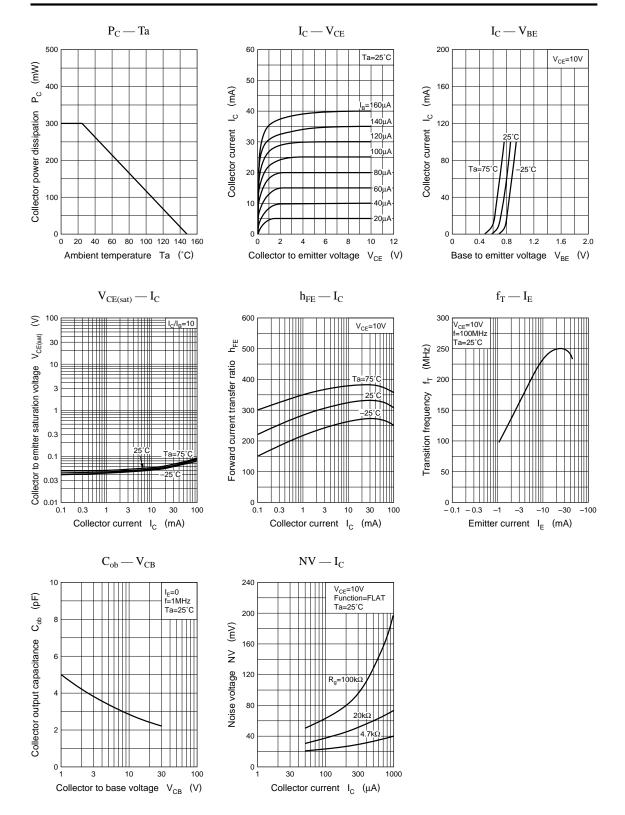
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = 10V, I_E = 0$			0.1	μΑ
	I_{CEO}	$V_{CE} = 10V, I_{B} = 0$			1	μΑ
Collector to base voltage	V _{CBO}	$I_{\rm C} = 10\mu{\rm A},I_{\rm E} = 0$	60			V
Collector to emitter voltage	V _{CEO}	$I_C = 2mA$, $I_B = 0$	50			V
Emitter to base voltage	V _{EBO}	$I_{\rm E} = 10 \mu A, I_{\rm C} = 0$	7			V
Forward current transfer ratio	h _{FE} *	$V_{CE} = 10V, I_{C} = 2mA$	160		460	
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = 100 \text{mA}, I_B = 10 \text{mA}$		0.1	0.3	V
Transition frequency	f_T	$V_{CB} = 10V, I_{E} = -2mA, f = 200MHz$		150		MHz
Collector output capacitance	C _{ob}	$V_{CB} = 10V, I_E = 0, f = 1MHz$ 3.		3.5		pF

*hFE Rank classification

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

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Transistor 2SC3311A



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