2SC3312

Silicon NPN epitaxial planer type

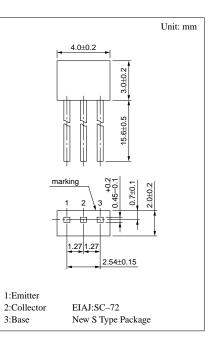
For low-frequency and low-noise amplification Complementary to 2SA1310

Features

- Optimum for high-density mounting.
- Allowing supply with the radial taping.
- Low noise voltage NV.

Parameter	Symbol	Ratings	Unit				
Collector to base voltage	V _{CBO}	60	V				
Collector to emitter voltage	V _{CEO}	55	V				
Emitter to base voltage	V _{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	Tj	150	°C				
Storage temperature	T _{stg}	-55 ~ +150	°C				

Absolute Maximum Ratings (Ta=25°C)

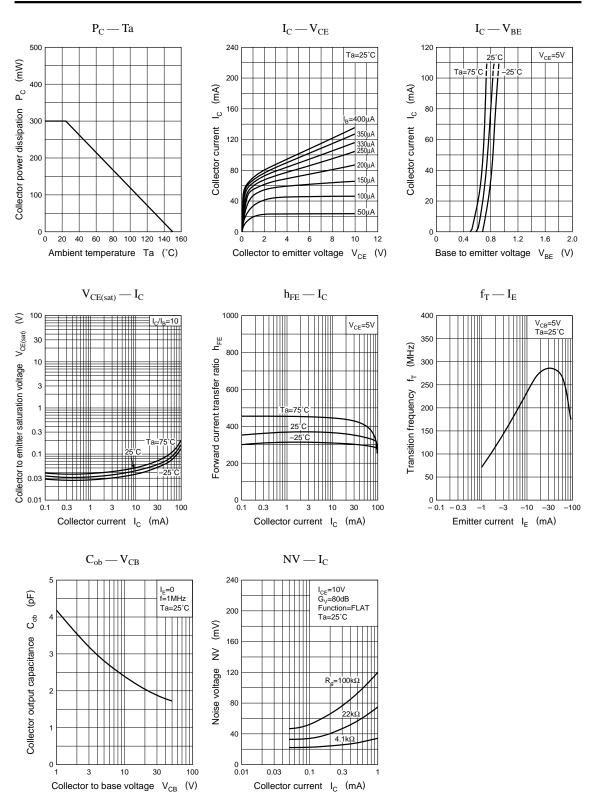


Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = 20V, I_E = 0$			0.1	μA
	I _{CEO}	$V_{CE} = 20V, I_B = 0$			1	μΑ
Collector to base voltage	V _{CBO}	$I_C = 10 \mu A, \ I_E = 0$	60			V
Collector to emitter voltage	V _{CEO}	$I_C = 2mA$, $I_B = 0$	55			V
Emitter to base voltage	V _{EBO}	$I_E = 10 \mu A, I_C = 0$	7			v
Forward current transfer ratio	h _{FE} *	$V_{CE} = 5V, I_C = 2mA$	180		700	
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = 100 \text{mA}, I_B = 10 \text{mA}$			1	v
Base to emitter voltage	V _{BE}	$V_{CE} = 1V, I_C = 30mA$			1	v
Transition frequency	f _T	$V_{CB} = 5V, I_E = -2mA, f = 200MHz$ 200			MHz	
Noise voltage	NV	$V_{CE} = 10V, I_C = 1mA, G_V = 80dB$ $R_g = 100k\Omega, Function = FLAT$			150	mV

*hFE Rank classification

Rank	R	S	Т
h _{FE}	180 ~ 360	260 ~ 520	360 ~ 700



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