2SC3315

Silicon NPN epitaxial planer type

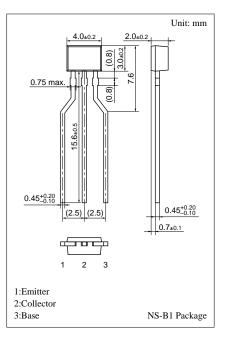
For high-frequency amplification

Features

- Optimum for high-density mounting.
- Allowing supply with the radial taping.
- Optimum for RF amplification of FM/AM radios.
- High transition frequency f_T.

Parameter	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	30	V
Collector to emitter voltage	V _{CEO}	20	V
Emitter to base voltage	V _{EBO}	3	V
Collector current	I _C	15	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)

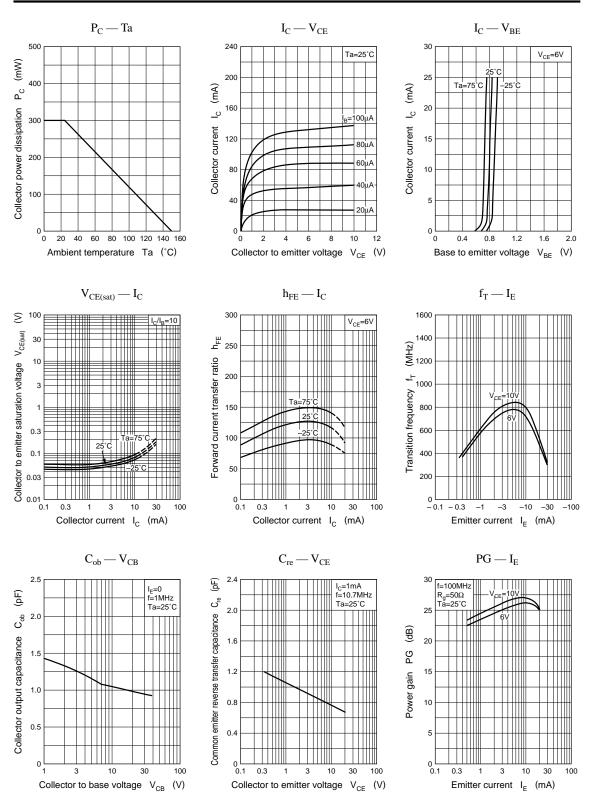


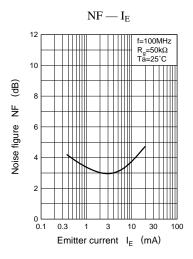
Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector to base voltage	V _{CBO}	$I_{\rm C} = 10 \mu A, I_{\rm E} = 0$	30			V
Emitter to base voltage	V _{EBO}	$I_{\rm E} = 10 \mu A, I_{\rm C} = 0$	3			v
Forward current transfer ratio	h _{FE} *	$V_{CB} = 6V, I_E = -1mA$	65		260	
Base to emitter voltage	V _{BE}	$V_{CB} = 6V, I_E = -1mA$		720		mV
Common emitter reverse transfer capacitance	C _{re}	$V_{CE} = 6V, I_C = 1mA, f = 10.7MHz$		0.8	1.0	pF
Transition frequency	f _T	$V_{CB} = 6V, I_E = -1mA, f = 200MHz$	450	650		MHz
Noise figure	NF	$V_{CB} = 6V, I_E = -1mA, f = 100MHz$		3.3	5.0	dB
Power gain	PG	$V_{CB} = 6V, I_E = -1mA, f = 100MHz$	20	24		dB

*hFE Rank classification

Rank	С	D
h _{FE}	65 ~ 160	100 ~ 260





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