2SC2206

Silicon NPN epitaxial planer type

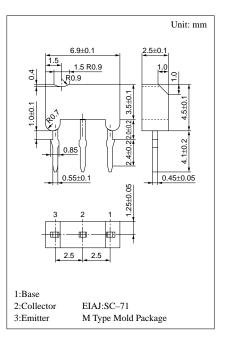
For high-frequency amplification Complementary to 2SA1254

Features

- Optimum for RF amplification of FM/AM radios.
- High transition frequency f_T .
- M type package allowing easy automatic and manual insertion as well as stand-alone fixing to the printed circuit board.

	-		
Parameter	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	30	V
Collector to emitter voltage	V _{CEO}	20	V
Emitter to base voltage	C _{EBO}	5	V
Collector current	I _C	30	mA
Collector power dissipation	P _C	400	mW
Junction temperature	Tj	150	°C
Storage temperature	T _{stg}	-55 ~ +150	°C

Absolute Maximum Ratings (Ta=25°C)



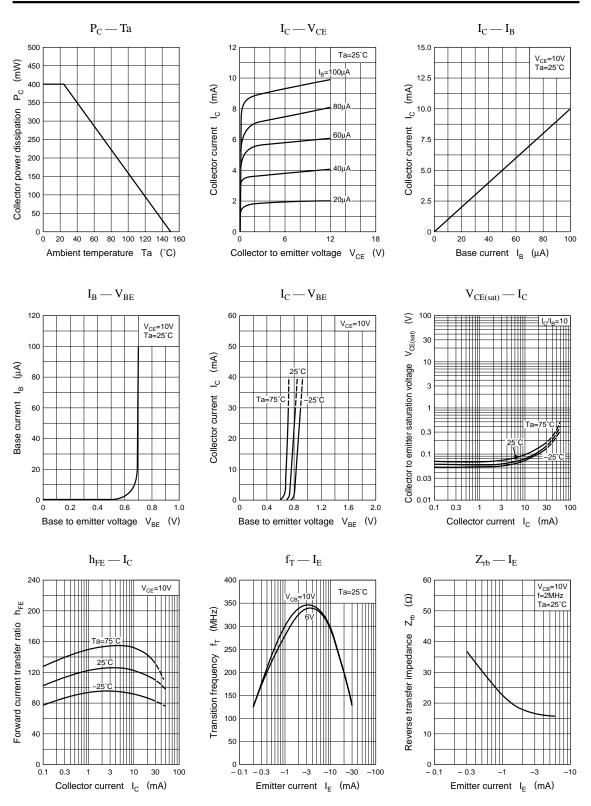
Electrical Characteristics (Ta=25°C)

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
Collector to emitter voltage	V _{CEO}	$I_{\rm C} = 1$ mA, $I_{\rm B} = 0$	20			V
Emitter to base voltage	V _{EBO}	$I_{\rm E} = 10 \mu A, I_{\rm C} = 0$	5			v
Forward current transfer ratio	h _{FE} *	$V_{CB} = 10V, I_E = -1mA$	70		220	
Collector to emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 10 {\rm mA}, I_{\rm B} = 1 {\rm mA}$		0.1		V
Base to emitter voltage	V _{BE}	$V_{CE} = 10V, I_{C} = 1mA$		0.7		V
Transition frequency	f _T	$V_{CB} = 10V, I_E = -1mA, f = 200MHz$	150	300		MHz
Noise figure	NF	$V_{CB} = 10V, I_E = -1mA, f = 5MHz$		2.8	4	dB
Common emitter reverse transfer capacitance	C _{re}	$V_{CE} = 10V, I_{C} = 1mA, f = 10.7MHz$			1.5	pF
Reverse transfer impedance	Z _{rb}	$V_{CB} = 10V, I_E = -1mA, f = 2MHz$			50	Ω

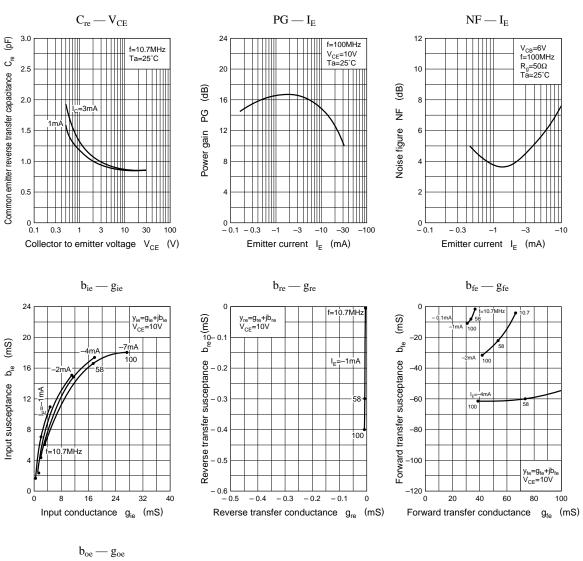
*hFE Rank classification

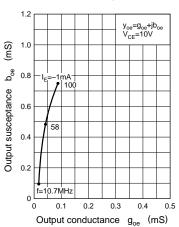
Rank	В	С
h _{FE}	70 ~ 140	110 ~ 220

Transistor



Transistor





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