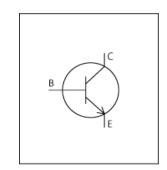


PSpice Model NPN Comchip BC817-16-G



Model Information

Model Gummel-Poon model Call Name MDC_BC817-16-G_PS

Pin Assign 1:C 2:B 3:E File List Model Library

Model Library MDC_BC817-16-G_PS02.lib
Model Report MDC_BC817-16-G_PS.pdf (this file)

Verified Simulator Version

Note

PSpice version 16.6

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version REV:BProduct name BC817-16-G

Company name Comchip Technology Co., Ltd.

● Characteristics IcVce[ib],hFEIc[Temp],Vbe(sat)Ic[Temp],Vce(sat)Ic[Temp],Ic

Vbe[Temp],Cob,Cib,fTlc[Vce]

Simulation Range

This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	45	V
Base current (DC)	0	to	50	А
Temperature	-55	to	150	deg C

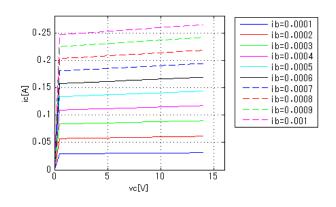


Simulation results are following.

Explanatory notes — : simulated

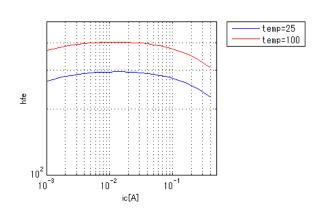
IcVce[ib]

Temp. = 25deg C



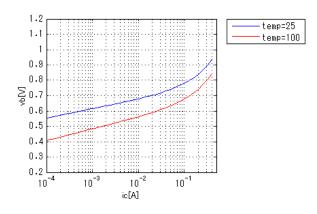
hFEIc[Temp]

Vce = 1V



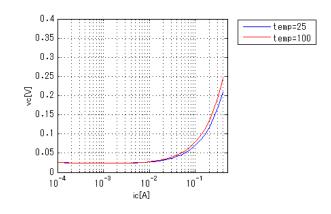
Vbe(sat)lc[Temp]

IC/IB = 10



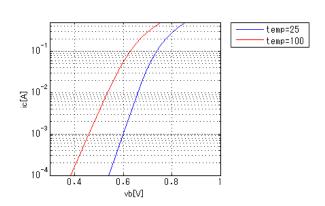
Vce(sat)lc[Temp]

IC/IB = 10



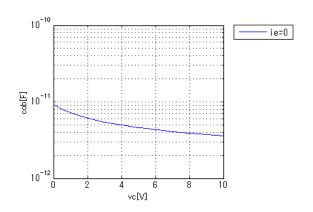
IcVbe[Temp]

Vce = 1V



Cob

Freq. = 1MHz

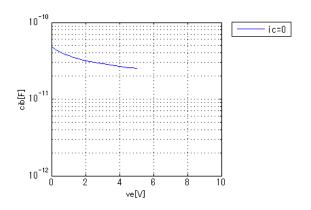




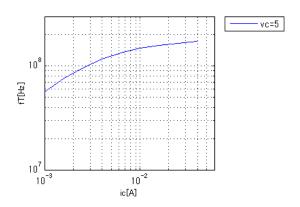
Simulation results are following. Explanatory notes — : simulated

Cib

Freq. = 1MHz



fTIc[Vce]





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