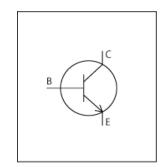


PSpice Model NPN ON FJP13007



Model Information

ModelGummel-Poon modelCall NameMDC_FJP13007_PS

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

Model Report MDC_FJP13007_PS.pdf (this file)

Verified Simulator Version

Note

PSpice version 16.6

MDC_FJP13007_PS02.lib

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version Rev. 1.1.0Product name FJP13007

Company name ON Semiconductor.

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

Simulation Range

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

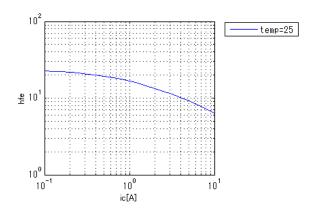
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	400	V
Base current (DC)	0	to	4	Α
Temperature	-65	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

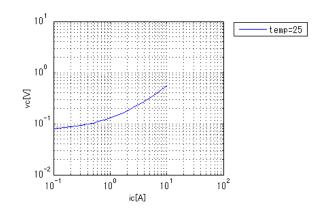
hFEIc[Temp]

Vce = 5V



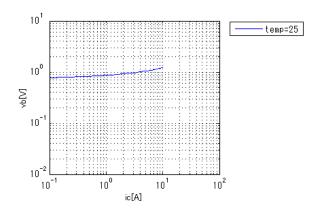
Vce(sat)lc[Temp]

IC/IB = 3



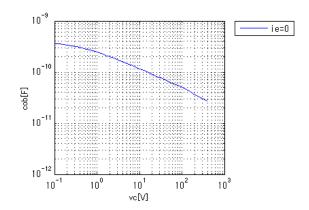
Vbe(sat)lc[Temp]

IC/IB = 3



Cob

Freq. = 0.1MHz





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