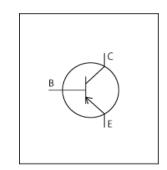


PSpice Model PNP ON NSV1C200MZ4T1G



Model Information

Model Gummel-Poon model

Call Name MDC NSV1C200MZ4T1G PS

Pin Assign 1:C 2:B 3:E

File List Model Library MDC_NSV1C200MZ4T1G_PS02.lib

Model Report MDC_NSV1C200MZ4T1G_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. 5

Product nameCompany nameNSV1C200MZ4T1GON Semiconductor.

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

p],Vce(sat)Ib[Ic],Cib,Cob,fTIc[Vce]

Simulation Range

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

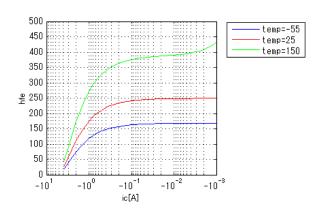
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-100	V
Base current (DC)	0	to	-1	А
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

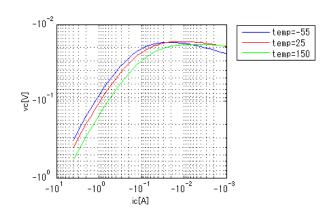
hFEIc[Temp]

Vce = -2V



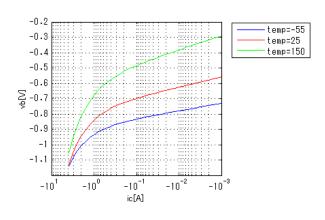
Vce(sat)lc[Temp]

IC/IB = 10



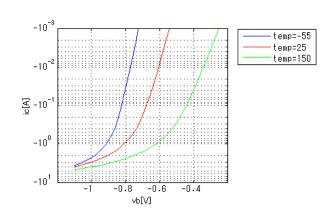
Vbe(sat)Ic[Temp]

IC/IB = 10



IcVbe[Temp]

Vce = -2V

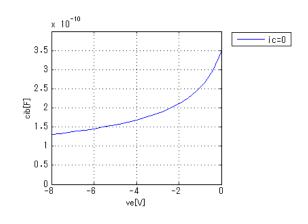


Vce(sat)lb[lc]

-10⁻² | ic=-0.1 | ic=-0.5 | ic=-1 | ic=-2 | ic=-3 | | ic=-3 | | ic=-0.5 | ic=-1 | ic=-2 | ic=-3 | | ic=-3 | ic=-3 | | ic=-3 | ic=-1 | ic=-3 | ic=-3

Cib

Freq. = 1MHz

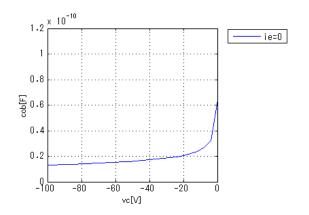




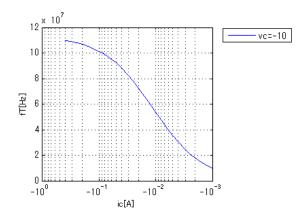
Simulation results are following. Explanatory notes — : simulated

Cob

Freq. = 1MHz



fTIc[Vce]





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