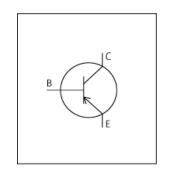


PSpice Model PNP ON NSS40200LT1G



Model Information

Model Gummel-Poon model
Call Name MDC_NSS40200LT1G_PS

Pin Assign 1:C 2:B 3:E

File List Model Library MDC_NSS40200LT1G_PS02.lib

Model Report MDC_NSS40200LT1G_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. 8

Product nameCompany nameNSS40200LT1GON Semiconductor.

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

c],Cob,Cib,IcVbe[Temp]

Simulation Range

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

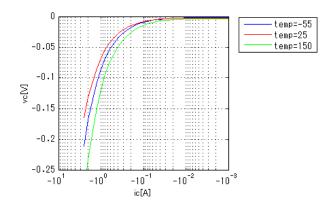
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-40	V
Base current (DC)	0	to	-0.20	А
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

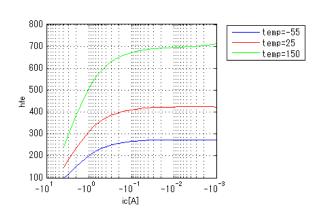
Vce(sat)lc[Temp]

IC/IB = 10



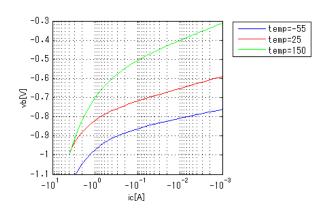
hFEIc[Temp]

Vce = -2V

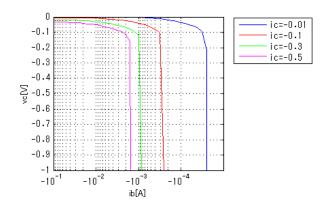


Vbe(sat)lc[Temp]

IC/IB = 10

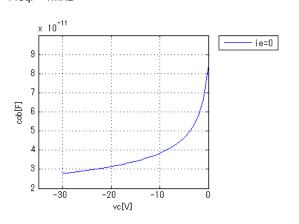


Vce(sat)lb[lc]



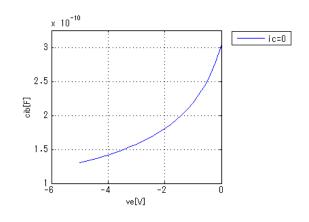
Cob

Freq. = 1MHz



Cib

Freq. = 1MHz

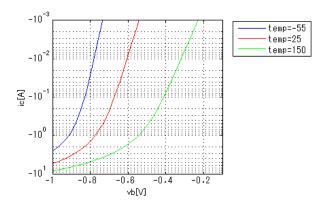




Simulation results are following. Explanatory notes — : simulated

IcVbe[Temp]

Vce = -2V





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MoDeCH Inc.

Head Office

Location: Mitsuiseimei Hachioji Bldg., 5-15 Yokoyama-cho, Hachioji-Shi, Tokyo 192-0081, Japan

Tel:+81-42-656-3360

E-Mail:model-on-support@modech.co.jp

URL:http://www.modech.com/en/