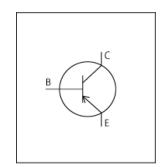


PSpice Model PNP ON NSS12500UW3T2G



Model Information

Model Gummel-Poon model

Call Name MDC NSS12500UW3T2G PS

Pin Assign 1:C 2:B 3:E

File List Model Library MDC_NSS12500UW3T2G_PS02.lib

Model Report MDC_NSS12500UW3T2G_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.1

Product nameCompany nameNSS12500UW3T2GON Semiconductor.

● Characteristics Vce(sat)lc[Temp],hFElc[Temp],lcVbe[Temp],Vcelb[lc],Cib,C

ob

Simulation Range

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

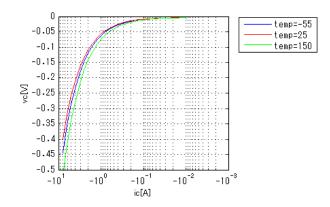
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-12	V
Base current (DC)	0	to	-0.50	Α
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

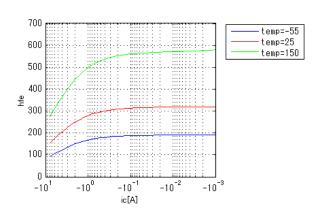
Vce(sat)lc[Temp]

IC/IB = 10



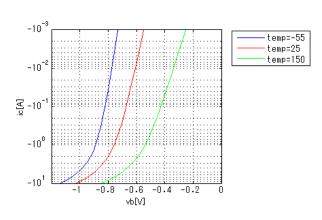
hFEIc[Temp]

Vce = -2V

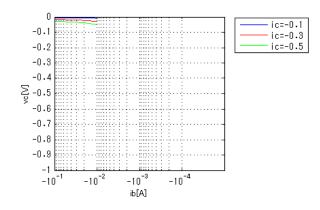


IcVbe[Temp]

Vce = -1V

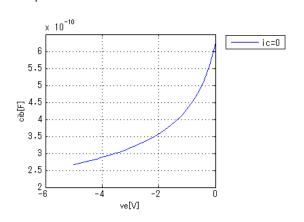


Vcelb[lc]



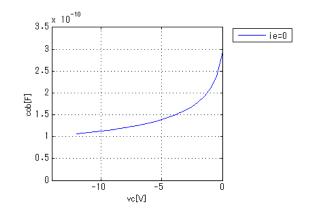
Cib

Freq. = 1MHz



Cob

Freq. = 1MHz





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