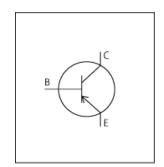


PSpice Model PNP ON SNSS35200MR6T1G



Model Information

Model Gummel-Poon model

Call Name MDC SNSS35200MR6T1G PS

Pin Assign 1:C 2:B 3:E

File List Model Library MDC_SNSS35200MR6T1G_PS02.lib

Model Report MDC_SNSS35200MR6T1G_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 nameSNSS35200MR6T1GON Semiconductor.

● Characteristics Vce(sat)lc[Temp],hFElc[Temp],Vbe(sat)lc[Temp],lcVbe[Tem

p],Cob,Cib

Simulation Range

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

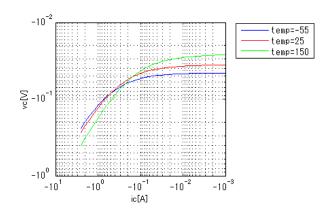
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-35	V
Base current (DC)	0	to	-0.040	Α
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

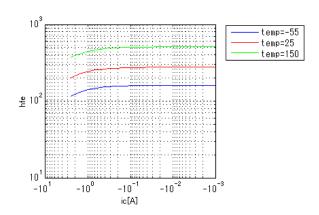
Vce(sat)lc[Temp]

IC/IB = 100



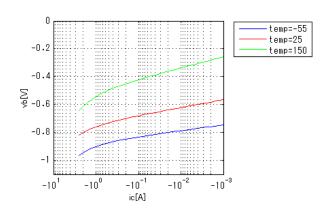
hFEIc[Temp]

Vce = -1.5V



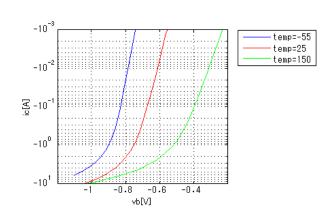
Vbe(sat)lc[Temp]

IC/IB = 100



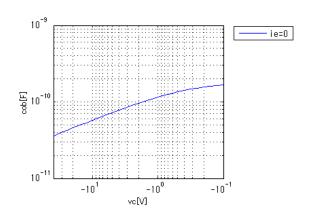
IcVbe[Temp]

Vce = -3V



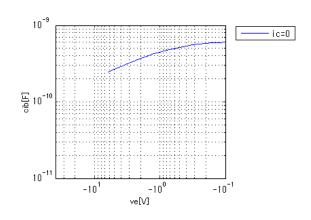
Cob

Freq. = 1MHz



Cib

Freq. = 1MHz





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