

MDC_NSS12100M3T5G_PS

PSpice Model PNP ON NSS12100M3T5G

Model Information

 Model
 Gummel-Poon model

 Call Name
 MDC_NSS12100M3T5G_PS

 Pin Assign
 1:C 2:B 3:E

 File List
 Model Library
 MDC_NSS12100M3T5G_PS02.lib

 Model Report
 MDC_NSS12100M3T5G_PS.pdf (this file)

Verified Simulator Version Note

PSpice version 16.6

References

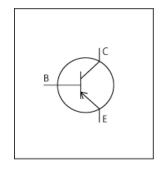
The information which was used for modeling is as follow:

Rev.0 NSS12100M3T5G ON Semiconductor. Vce(sat)Ic[Temp],hFEIc[Temp],Vbe(sat)Ic[Temp],VceIb[Ic],Ci b,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	-12	V
Base current (DC)	0	to	-0.10	А
Temperature	-55	to	150	deg C

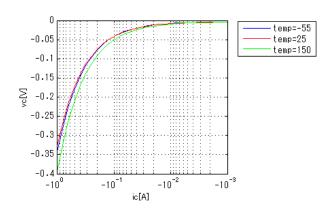




Simulation results are following. Explanatory notes — : simulated

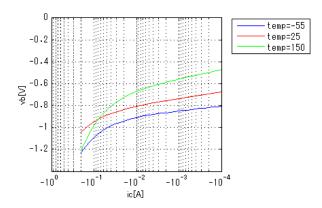
Vce(sat)lc[Temp]

IC/IB = 10

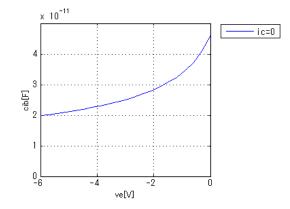


Vbe(sat)lc[Temp]

IC/IB = 10



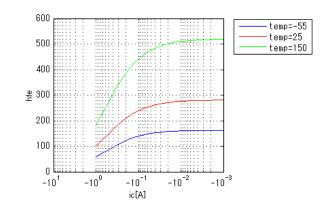




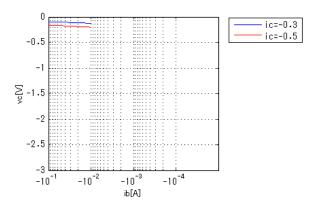
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hFElc[Temp]

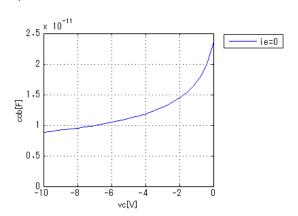
Vce = -2V



Vcelb[lc]



Cob Freq. = 1MHz





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