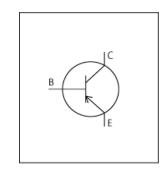


PSpice Model PNP Panasonic DSA2401



Model Information

Model Gummel-Poon model Call Name MDC_DSA2401_PS

Pin Assign 1:C 2:B 3:E **File List** Model Library

Model Library MDC_DSA2401_PS02.lib
Model Report MDC_DSA2401_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/VersionProduct nameVer. BJDDSA2401

Company namePanasonic Corporation

● Characteristics IcVce[ib],hFEIc[Temp],Vce(sat)Ic[Temp],IcVbe[Temp],Cob,fT

lc[Vce],Vbe(sat)lc[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	-10	V
Base current (DC)	0	to	-0.010	А
Temperature	-55	to	150	deg C

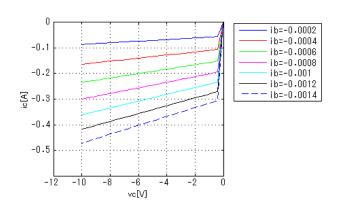


Simulation results are following.

Explanatory notes — : simulated

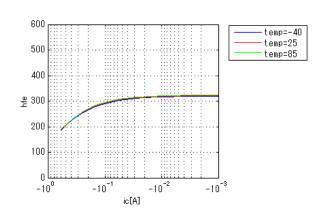
IcVce[ib]

Temp. = 25deg C



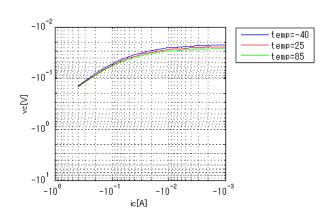
hFEIc[Temp]

Vce = -2V



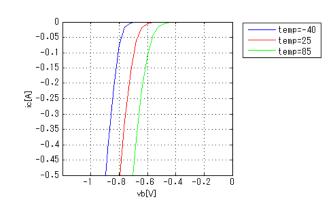
Vce(sat)lc[Temp]

IC/IB = 50



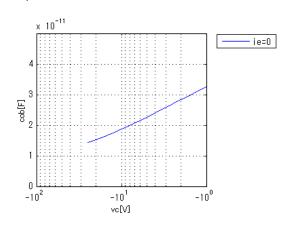
IcVbe[Temp]

Vce = -2V

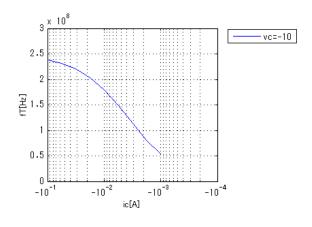


Cob

Freq. = 1MHz



fTlc[Vce]

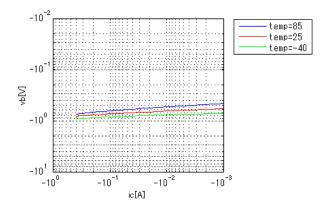




Simulation results are following. Explanatory notes — : simulated

Vbe(sat)lc[Temp]

IC/IB = 50





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