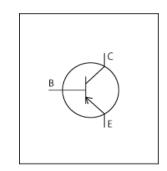


PSpice Model PNP TOSHIBA 2SA2206



Model Information

Model Gummel-Poon model
Call Name MDC_2SA2206_PS

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

Model Report MDC_2SA2206_PS.pdf (this file)

Verified Simulator Version

Note

PSpice version 16.6

MDC_2SA2206_PS02.lib

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/VersionProduct name2013-11-012SA2206

Company name
Toshiba Corporation

● Characteristics IcVce[ib],hFEIc[Temp],Vce(sat)Ic[Temp],Vbe(sat)Ic[Temp],Ic

Vbe[Temp],fTlc[Vce],Cob

Simulation Range

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

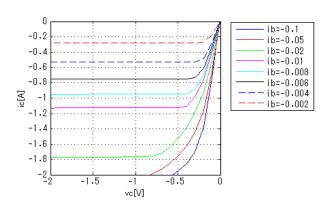
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-80	V
Base current (DC)	0	to	-0.50	Α
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

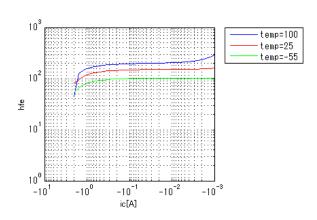
IcVce[ib]

Temp. = 25deg C



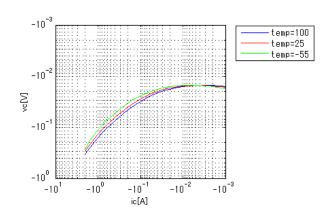
hFEIc[Temp]

Vce = -2V



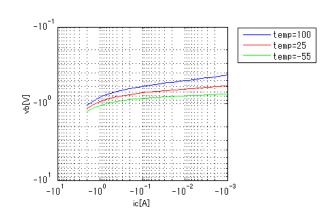
Vce(sat)lc[Temp]

IC/IB = 10



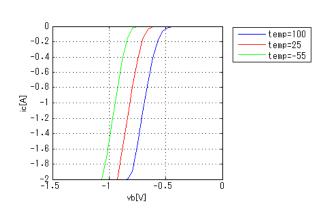
Vbe(sat)lc[Temp]

IC/IB = 10

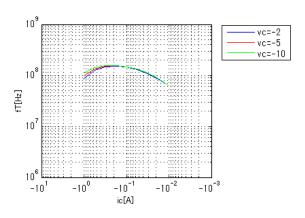


IcVbe[Temp]

Vce = -2V



fTIc[Vce]

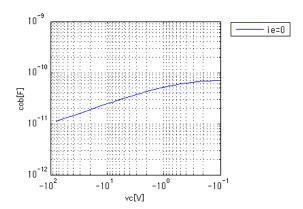




Simulation results are following. Explanatory notes — : simulated

Cob

Freq. = 1MHz





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