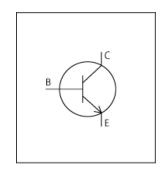


PSpice Model NPN Diodes FCX458



Model Information

Model Gummel-Poon model
Call Name MDC_FCX458_PS
Pin Assign 1:C 2:B 3:E

File List Model Library

Model Report MDC_FCX458_PS.pdf (this file)

Verified Simulator Version

Note

PSpice version 16.6

MDC_FCX458_PS02.lib

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/VersionProduct nameRev. 7 - 2FCX458

Company name Diodes Incorporated

● Characteristics Vce(sat)lc[hFE],Vce(sat)lc[Temp],Vbe(sat)lc[Temp],lcVbe[Te

mp]

Simulation Range

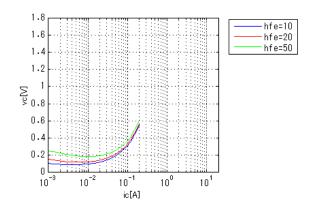
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	400	V
Base current (DC)	0	to	200m	А
Temperature	-65	to	150	deg C



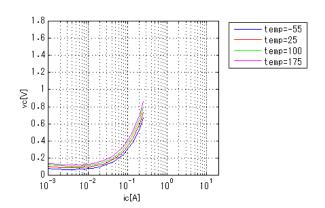
Simulation results are following. Explanatory notes — : simulated

Vce(sat)lc[hFE]



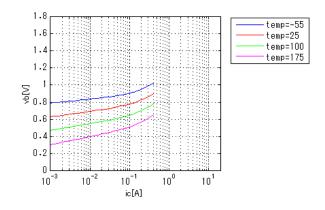
Vce(sat)lc[Temp]

IC/IB = 10



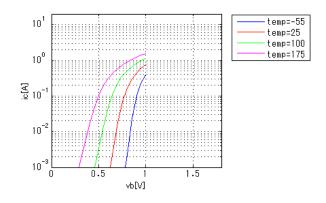
Vbe(sat)lc[Temp]

IC/IB = 10



IcVbe[Temp]

Vce = 10V





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