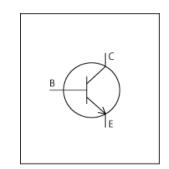


PSpice Model NPN Nexperia BC817-25QA



Model Information

Model Gummel-Poon model Call Name MDC_BC817-25QA_PS

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

Model Library MDC_BC817-25QA_PS02.lib
Model Report MDC_BC817-25QA_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. 1 - 3 September 2013

Product nameBC817-25QANexperia B.V.

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

at)Ic[Temp]

Simulation Range

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

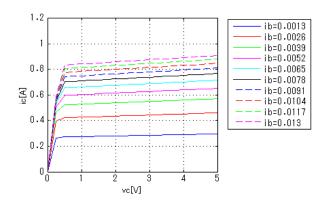
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	45	V
Base current (DC)	0	to	200m	Α
Temperature	-65	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

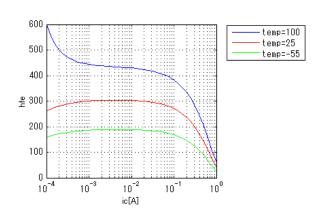
IcVce[ib]

Temp. = 25deg C



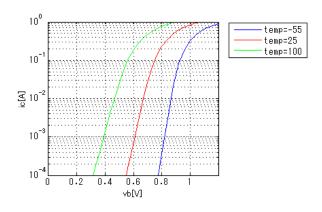
hFEIc[Temp]

Vce = 1V



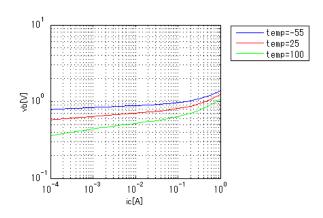
IcVbe[Temp]

Vce = 1V



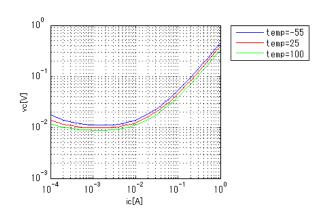
Vbe(sat)lc[Temp]

IC/IB = 10



Vce(sat)lc[Temp]

IC/IB = 10





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