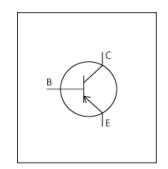


PSpice Model PNP Diodes 2DA1201Y



Model Information

Model Gummel-Poon model Call Name MDC_2DA1201Y_PS

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

Model Library MDC_2DA1201Y_PS02.lib
Model Report MDC_2DA1201Y_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: 3 - 2Product name 2DA1201Y

Company nameDiodes Incorporated

● Characteristics Vce(sat)lc[hFE],Vce(sat)lc[Temp],hFElc[Temp],Vbe(sat)lc[T

emp],IcVbe[Temp]

Simulation Range

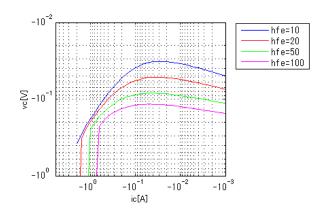
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

| Item | Range | | | Unit |
|--------------------------------|-------|----|-------|-------|
| | Min. | | Max. | |
| Collector-emitter voltage (DC) | 0 | to | -120 | V |
| Base current (DC) | 0 | to | -160m | А |
| Temperature | -55 | to | 150 | deg C |



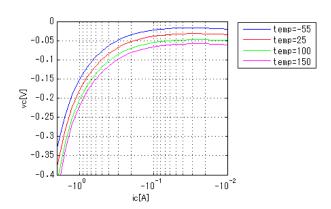
Simulation results are following. Explanatory notes — : simulated

Vce(sat)lc[hFE]



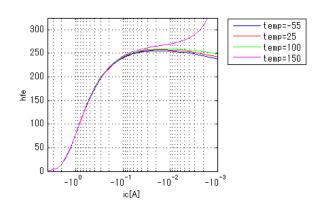
Vce(sat)lc[Temp]

IC/IB = 10



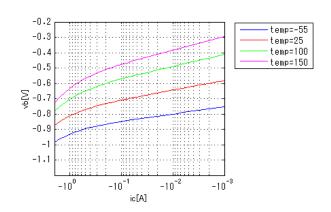
hFEIc[Temp]

Vce = -5V



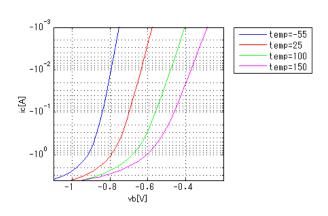
Vbe(sat)lc[Temp]

IC/IB = 10



IcVbe[Temp]

Vce = -5V





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