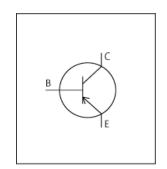


PSpice Model PNP Diodes 2DB1119S



Model Information

Model Mextram model
Call Name MDC_2DB1119S_PS

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

Model Report MDC_2DB1119S_PS.pdf (this file)

Verified Simulator Version

Note

PSpice version 16.6

MDC_2DB1119S_PS01.lib

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version Rev. 2 - 2Product name 2DB1119S

Company name Diodes Incorporated

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

at)Ic[Temp],Cib,Cob,fTIc[Vce]

Simulation Range

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

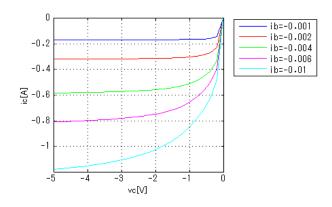
| Item | Range | | | Unit |
|--------------------------------|-------|----|-------|-------|
| | Min. | | Max. | |
| Collector-emitter voltage (DC) | 0 | to | -25 | V |
| Base current (DC) | 0 | to | -0.10 | Α |
| Temperature | -55 | to | 150 | deg C |



Simulation results are following. Explanatory notes — : simulated

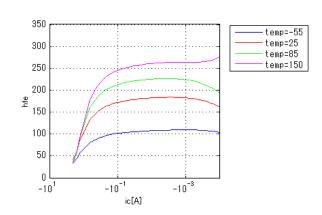
IcVce[ib]

Temp. = 25deg C



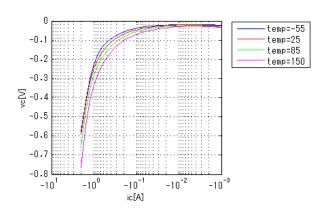
hFEIc[Temp]

Vce = -2V



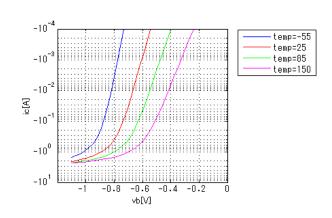
Vce(sat)lc[Temp]

IC/IB = 10



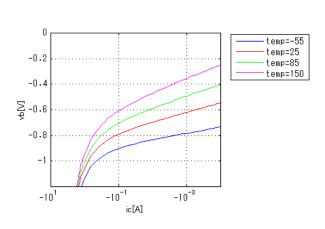
IcVbe[Temp]

Vce = -2V



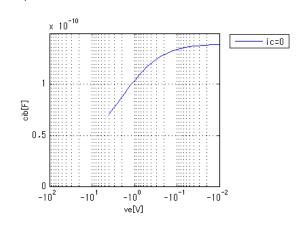
Vbe(sat)lc[Temp]

IC/IB = 10



Cib

Freq. = 1MHz

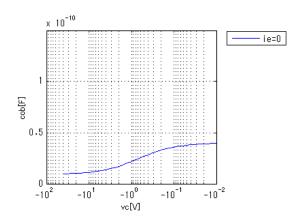




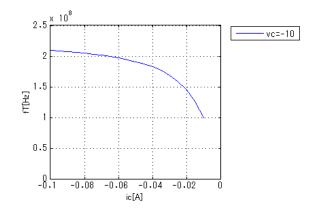
Simulation results are following. Explanatory notes — : simulated

Cob

Freq. = 1MHz



fTIc[Vce]





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