

MDC_2SA1943N_PS

PSpice Model PNP TOSHIBA 2SA1943N

Model Information

ModelGummel-Poon modelCall NameMDC_2SA1943N_PSPin Assign1:C 2:B 3:EFile ListModel Library
Model Report

MDC_2SA1943N_PS02.lib MDC_2SA1943N_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]

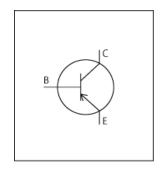
Date/Version
Product name
Company name
Characteristics

2015-05-12 Rev.2.0 2SA1943N Toshiba Corporation IcVce[ib],hFEIc[Temp],Vce(sat)Ic[Temp],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 | -230 | V |
| Base current (DC) | 0 | to | -2 | А |
| Temperature | -55 | to | 150 | deg C |

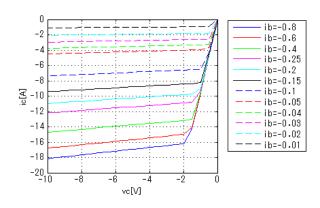




Simulation results are following. Explanatory notes -: simulated

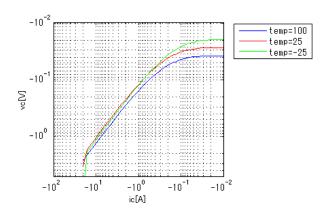
lcVce[ib]

Temp. = 25deg C



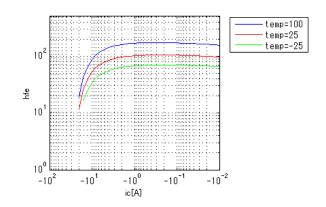
Vce(sat)lc[Temp]

IC/IB = 10



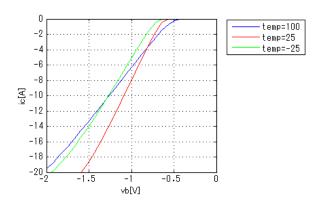
hFElc[Temp]

Vce = -5V



IcVbe[Temp]

Vce = -5V





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