

PSpice Model

NPN

TOSHIBA

2SC5095



Model Information

Model Mextram model
Call Name MDC_2SC5095_PS
Pin Assign 1:C 2:B 3:E
File List Model Library MDC_2SC5095_PS01.lib
 Model Report MDC_2SC5095_PS.pdf (this file)

Verified Simulator Version PSpice version 16.6
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version 2014-03-01
- Product name 2SC5095
- Company name Toshiba Corporation
- Characteristics hFEIc[Temp],Cob,fTlc[Vce]

Simulation Range

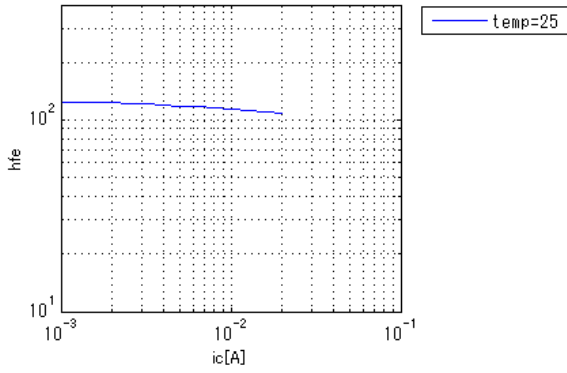
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

| Item | Range | | | Unit |
|--------------------------------|-------|----|------|-------|
| | Min. | | Max. | |
| Collector-emitter voltage (DC) | 0 | to | 10 | V |
| Base current (DC) | 0 | to | 7m | A |
| Temperature | -55 | to | 125 | deg C |

Simulation results are following.
 Explanatory notes — : simulated

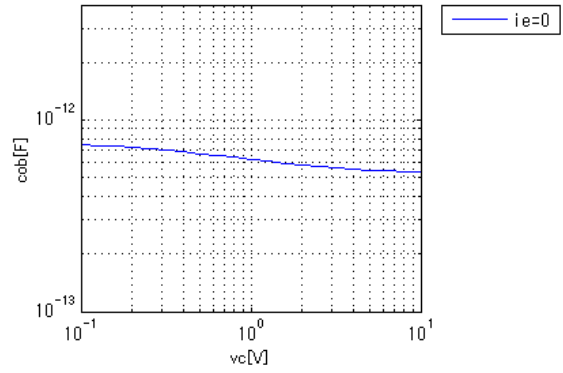
hFEIc[Temp]

Vce = 6V

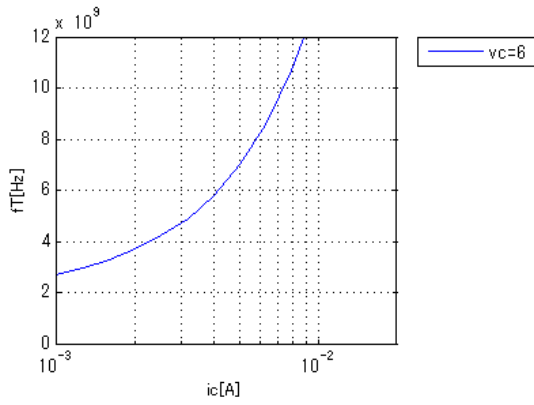


Cob

Freq. = 1MHz



fTIC[Vce]



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