

LTspice Model

PNP+PNP

SanKen

STA408A

Model Information

Model Gummel-Poon model
Call Name MDC_STA408A_LT
Pin Assign 1:E 2:B 3:C 4:B 5:C 6:B 7:C 8:B 9:C 10:E
File List Model Library MDC_STA408A_LT01.lib
 Model Report MDC_STA408A_LT.pdf (this file)

Verified Simulator Version LTspice version XVII
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version None
- Product name STA408A
- Company name Sanken Electric Co., Ltd.
- Characteristics IcVce[ib],hFEIc[Temp],Vce(sat)Ic[Temp],Vce(sat)Ib[Ic],IcVbe[Temp]

Simulation Range

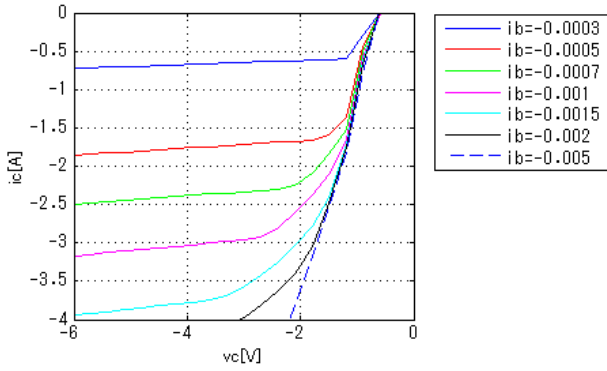
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

| Item | Range | | | Unit |
|--------------------------------|-------|----|------|-------|
| | Min. | | Max. | |
| Collector-emitter voltage (DC) | 0 | to | -120 | V |
| Base current (DC) | 0 | to | -1 | A |
| Temperature | -40 | to | 150 | deg C |

Simulation results are following.
 Explanatory notes — : simulated

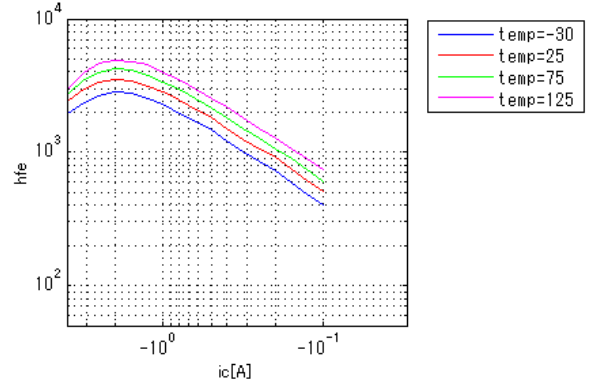
IcVce[ib]

Temp. = 25deg C



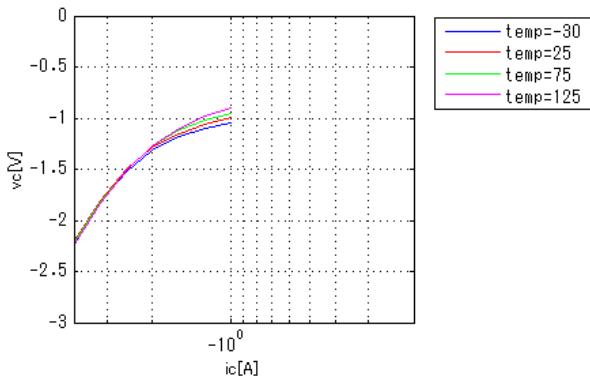
hFEIc[Temp]

Vce = -4V

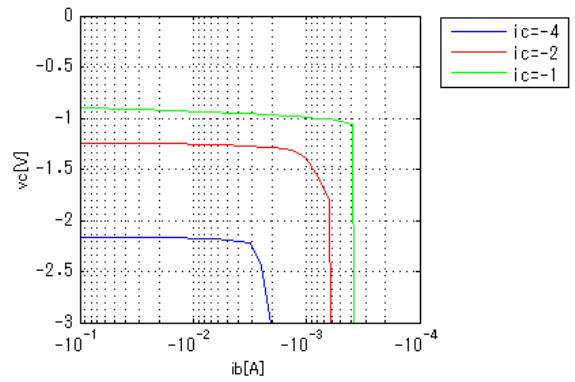


Vce(sat)Ic[Temp]

IC/IB = 1000

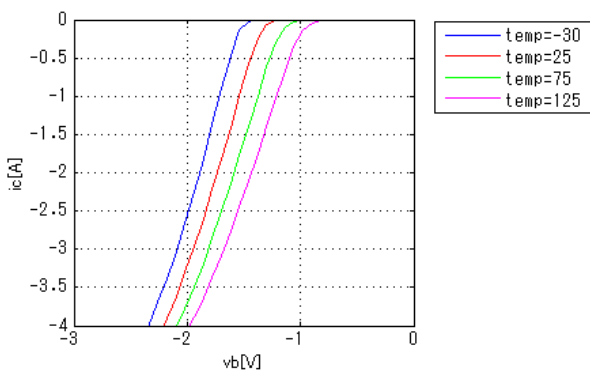


Vce(sat)Ib[Ic]



IcVbe[Temp]

Vce = -4V



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MoDeCH Inc.

Head Office

Location: Mitsuseimei Hachioji Bldg., 5-15 Yokoyama-cho, Hachioji-Shi, Tokyo 192-0081, Japan

Tel:+81-42-656-3360

E-Mail: model-on-support@modech.co.jp

URL: <http://www.modech.com/en/>