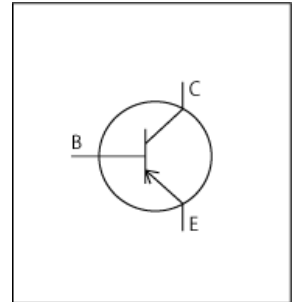


PSpice Model

PNP

Isahaya

2SA1366



Model Information

Model Gummel-Poon model
Call Name MDC_2SA1366_PS
Pin Assign 1:C 2:B 3:E
File List Model Library MDC_2SA1366_PS02.lib
 Model Report MDC_2SA1366_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 2014/8
- Product name 2SA1366
- Company name Isahaya Electronics Corporation
- Characteristics $I_{cVce}[ib], hFEI_{c[Vce]}, I_{cVbe}[Temp], V_{ce(sat)}I_{c}[hFE], fT I_{c}[Vce]$

Simulation Range

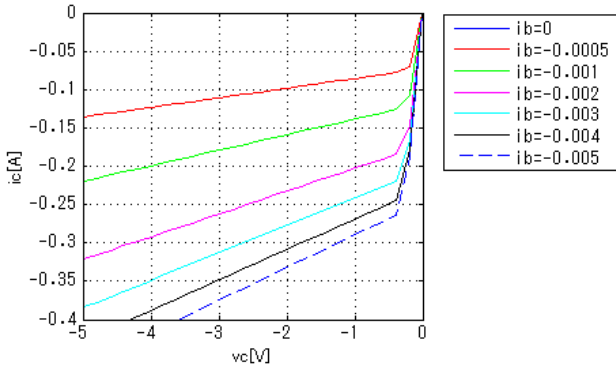
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-50	V
Base current (DC)	0	to	-0.020	A
Temperature	-55	to	150	deg C

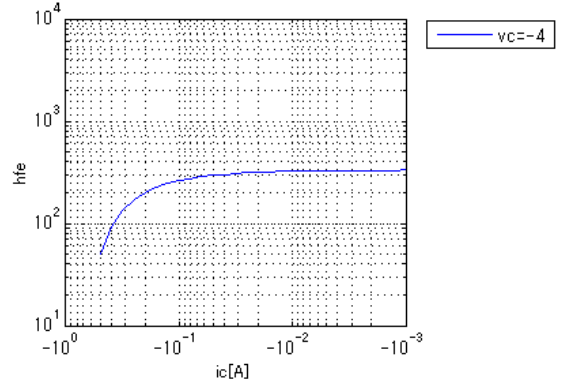
Simulation results are following.
 Explanatory notes — : simulated

IcVce[ib]

Temp. = 25deg C

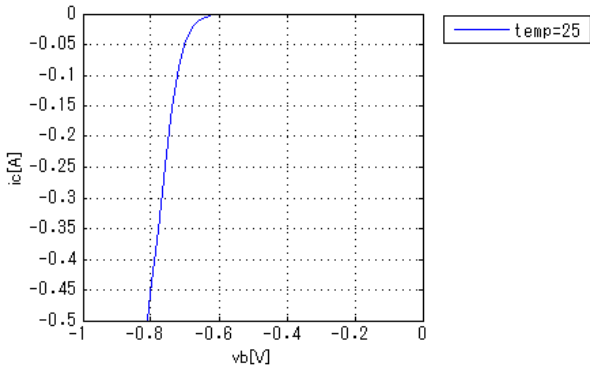


hFEIc[Vce]

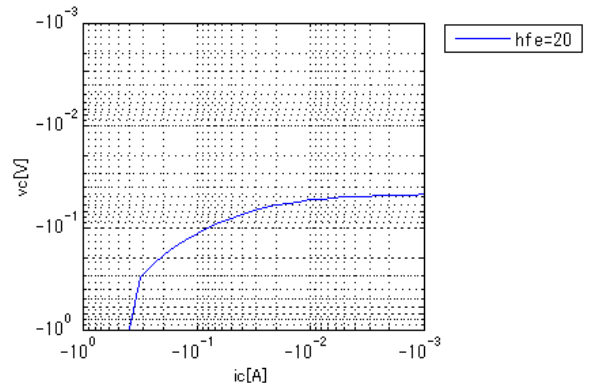


IcVbe[Temp]

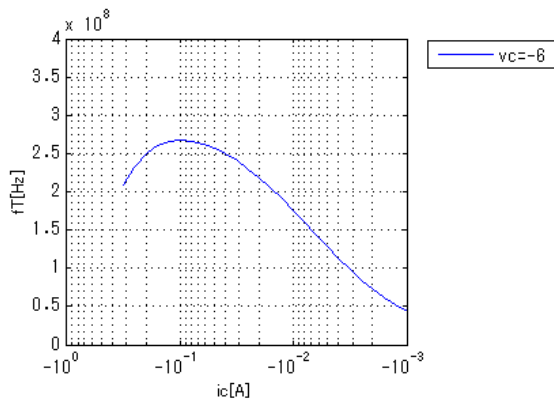
Vce = -4V



Vce(sat)Ic[hFE]



fT Ic[Vce]



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