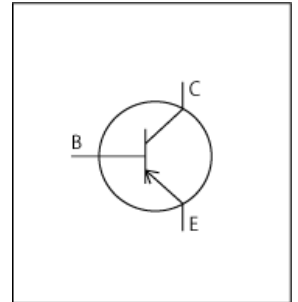


PSpice Model

PNP

RENESAS

2SB1571



Model Information

Model Mextram model
Call Name MDC_2SB1571_PS
Pin Assign 1:C 2:B 3:E
File List Model Library MDC_2SB1571_PS01.lib
 Model Report MDC_2SB1571_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 December 2001
- Product name 2SB1571
- Company name Renesas Electronics Corporation
- Characteristics $I_c V_{ce}[ib], I_c V_{be}[Temp], hFE I_c[Temp], V_{ce}(sat) I_c[Temp], V_{be}(sat) I_c[Temp], fT I_c[V_{ce}], C_{ob}$

Simulation Range

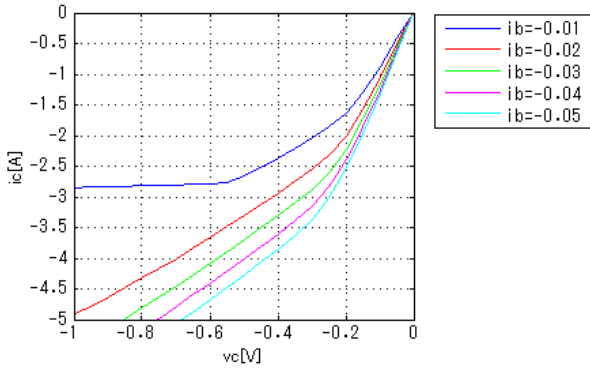
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-30	V
Base current (DC)	0	to	-0.20	A
Temperature	-55	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

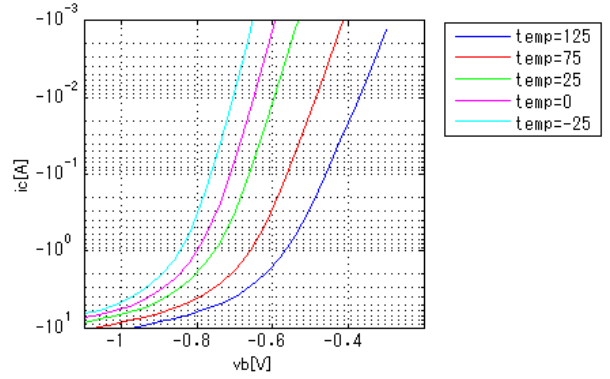
IcVce[ib]

Temp. = 25deg C



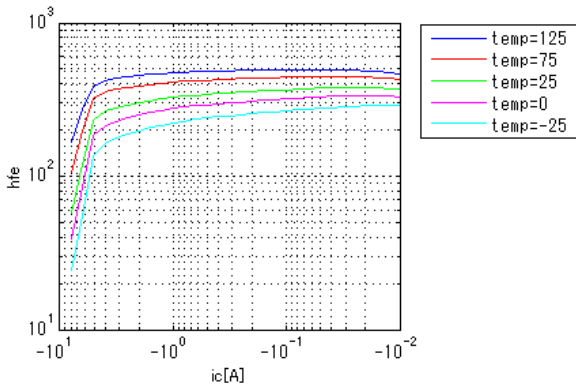
IcVbe[Temp]

Vce = -1V



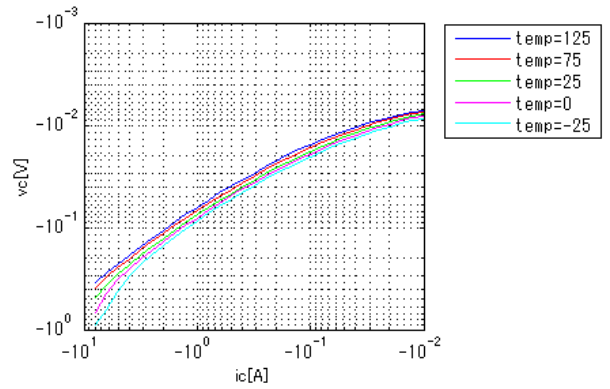
hFEIc[Temp]

Vce = -1V



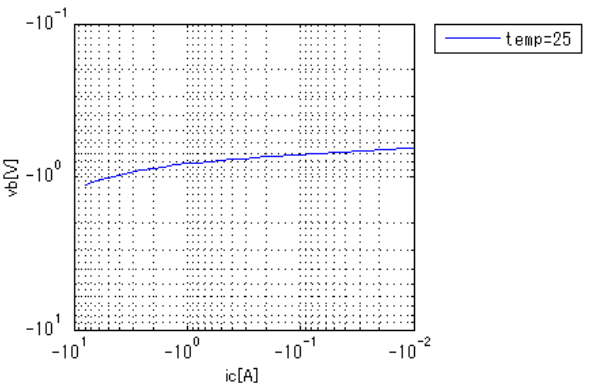
Vce(sat)Ic[Temp]

IC/IB = 20

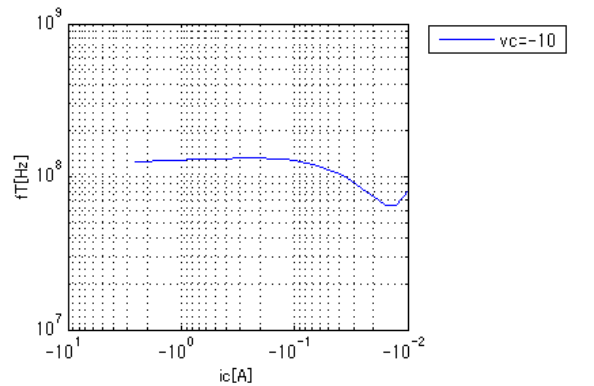


Vbe(sat)Ic[Temp]

IC/IB = 20



fT Ic [Vce]

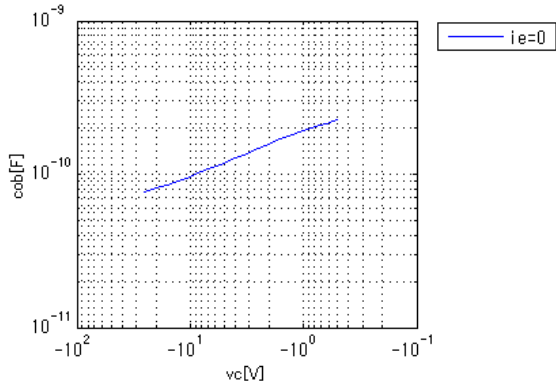


Simulation results are following.

Explanatory notes — : simulated

Cob

Freq. = 1MHz



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