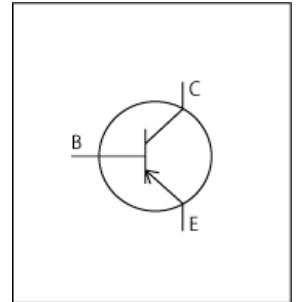


PSpice Model

PNP

RENESAS

2SB1628



Model Information

Model Mextram model
Call Name MDC_2SB1628_PS
Pin Assign 1:C 2:B 3:E
File List Model Library MDC_2SB1628_PS01.lib
 Model Report MDC_2SB1628_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 September 1994 M
- Product name 2SB1628
- Company name Renesas Electronics Corporation
- Characteristics $I_c V_{be}[Temp]$, $h_{FE} I_c [Temp]$, $V_{ce(sat)} I_c [Temp]$, $V_{be(sat)} I_c [Temp]$, $f_{T} I_c [V_{ce}]$, C_{ob}

Simulation Range

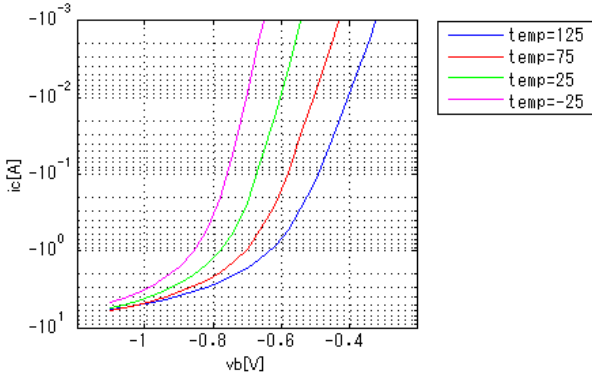
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-16	V
Base current (DC)	0	to	-0.20	A
Temperature	-55	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

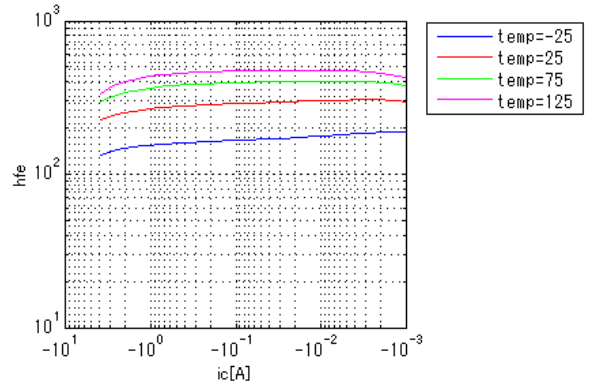
IcVbe[Temp]

Vce = -2V



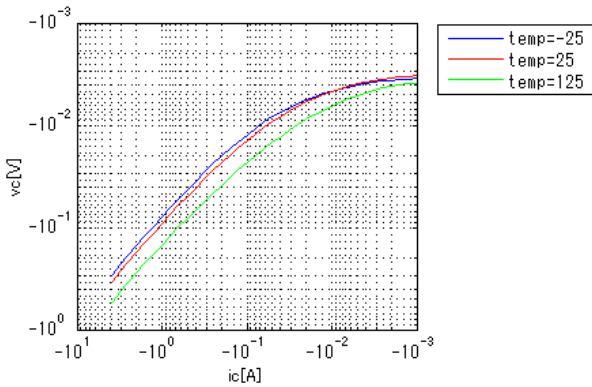
hFEIc[Temp]

Vce = -2V



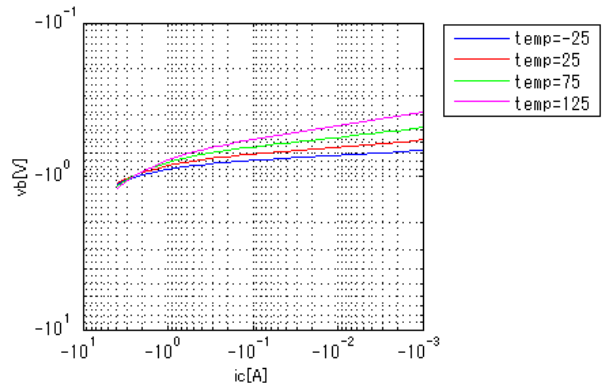
Vce(sat)Ic[Temp]

IC/IB = 10

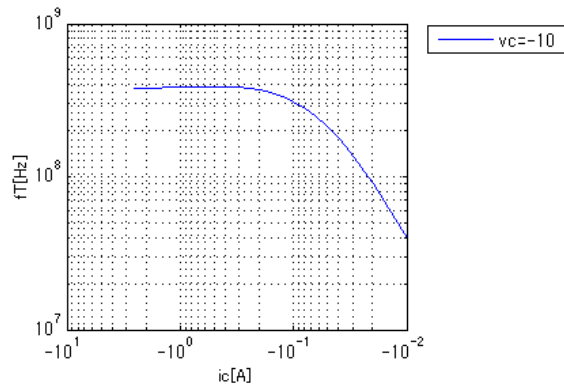


Vbe(sat)Ic[Temp]

IC/IB = 20

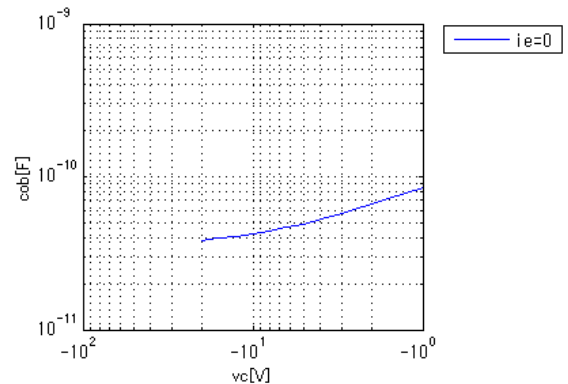


fT[Ic[Vce]]



Cob

Freq. = 1MHz



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