

PSpice Model

PNP

Panasonic

DSA2005



Model Information

Model Mextram model
Call Name MDC_DSA2005_PS
Pin Assign 1:C 2:B 3:E
File List Model Library MDC_DSA2005_PS01.lib
 Model Report MDC_DSA2005_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 Ver. AJD
- Product name DSA2005
- Company name Panasonic Corporation
- Characteristics $I_c V_{ce}[I_b], hFE I_c[Temp], V_{ce}(sat) I_c[Temp], I_c V_{be}[Temp], C_{ob}, f_T I_c[V_{ce}]$

Simulation Range

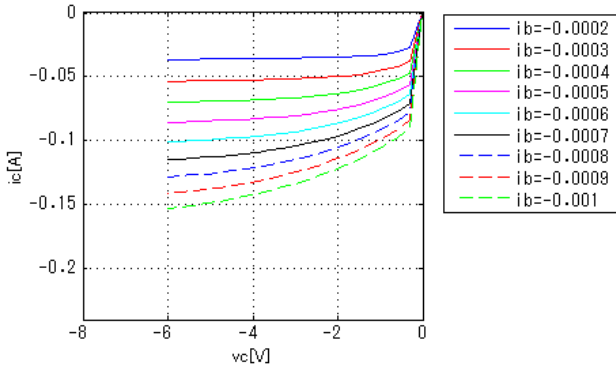
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-50	V
Base current (DC)	0	to	-20	A
Temperature	-55	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

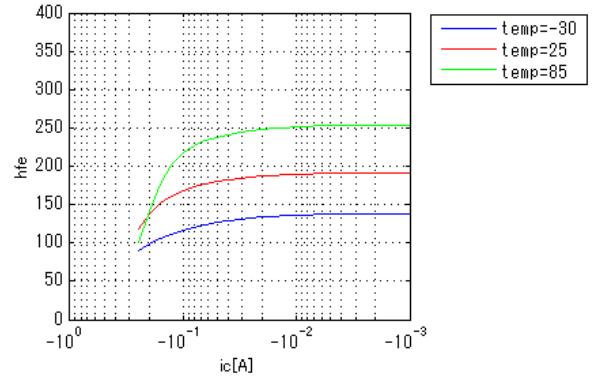
IcVce[ib]

Temp. = 25deg C



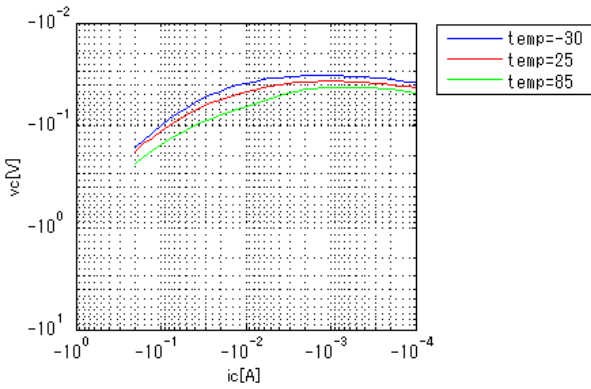
hFEIc[Temp]

Vce = -6V



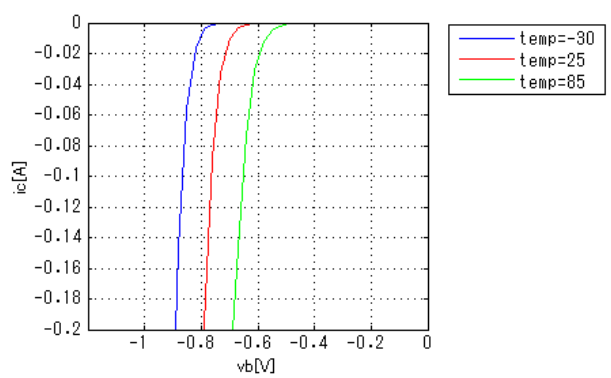
Vce(sat)Ic[Temp]

IC/IB = 10



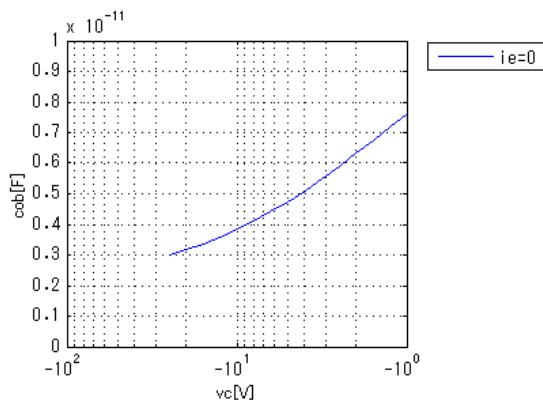
IcVbe[Temp]

Vce = -6V

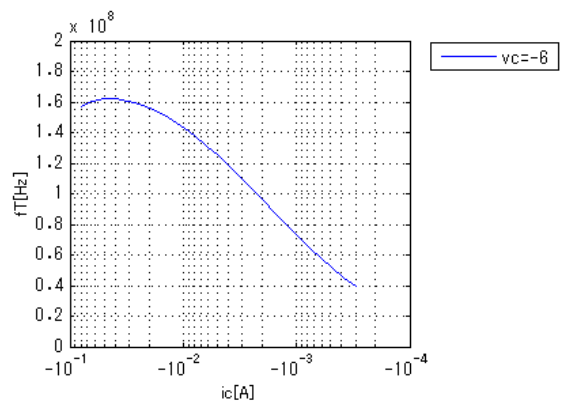


Cob

Freq. = 1MHz



fT Ic [Vce]



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