

PSpice Model

PNP

Panasonic

DSA7U01



Model Information

Model Mextram model
Call Name MDC_DSA7U01_PS
Pin Assign 1:C 2:B 3:E
File List Model Library MDC_DSA7U01_PS01.lib
 Model Report MDC_DSA7U01_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 2014/02
- Product name DSA7U01
- Company name Panasonic Corporation
- Characteristics $I_{cV_{ce}}[I_b], h_{FE}I_c[Temp], V_{ce(sat)}I_c[Temp], I_cV_{be}[Temp], C_{ob}, f_T, I_c[V_{ce}], V_{be(sat)}I_c[Temp]$

Simulation Range

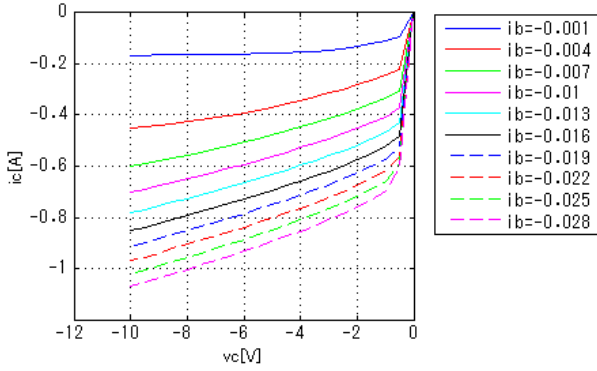
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-100	V
Base current (DC)	0	to	-0.050	A
Temperature	-55	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

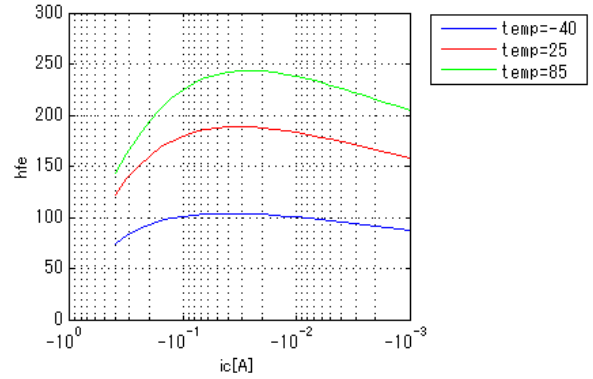
IcVce[ib]

Temp. = 25deg C



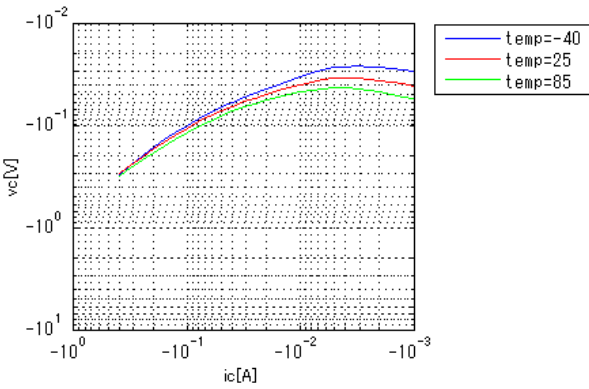
hFEIc[Temp]

Vce = -10V



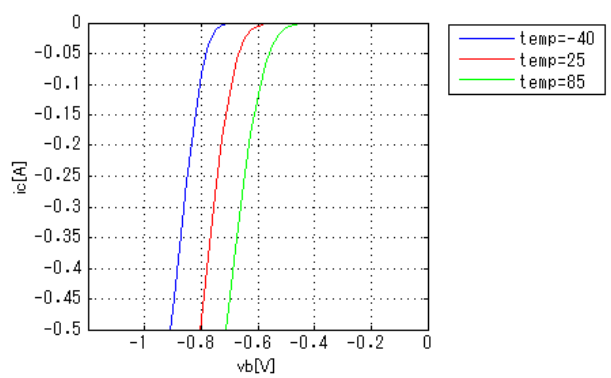
Vce(sat)Ic[Temp]

IC/IB = 10



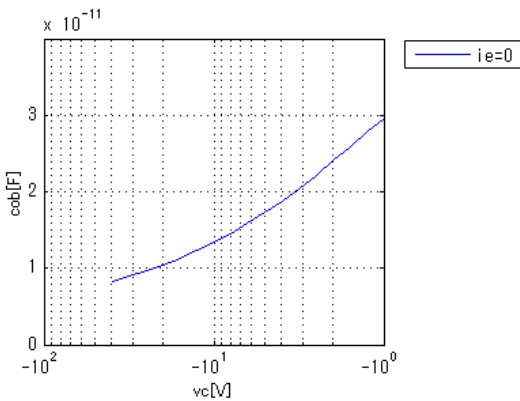
IcVbe[Temp]

Vce = -10V

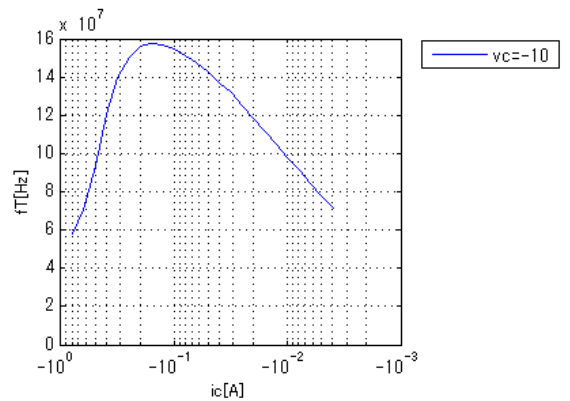


Cob

Freq. = 1MHz



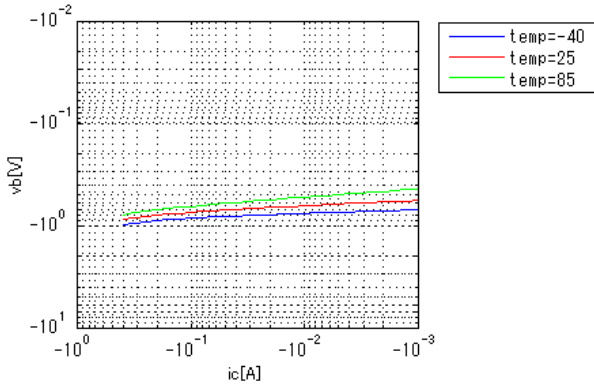
fT Ic [Vce]



Simulation results are following.
Explanatory notes — : simulated

Vbe(sat)Ic[Temp]

IC/IB = 10



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