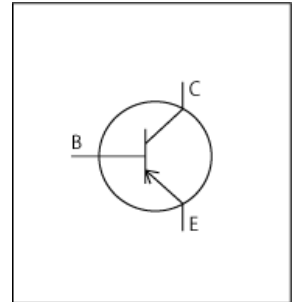


PSpice Model

PNP

Nexperia

2PB709ART



Model Information

Model Mextram model
Call Name MDC_2PB709ART_PS
Pin Assign 1:C 2:B 3:E
File List Model Library MDC_2PB709ART_PS01.lib
 Model Report MDC_2PB709ART_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 Rev. 01 - 19 March 2007
- Product name 2PB709ART
- Company name Nexperia B.V.
- Characteristics $I_{cVce}[ib]$, $hFEI_c[Temp]$, $V_{be}(sat)I_c[Temp]$, $V_{ce}(sat)I_c[Temp]$

Simulation Range

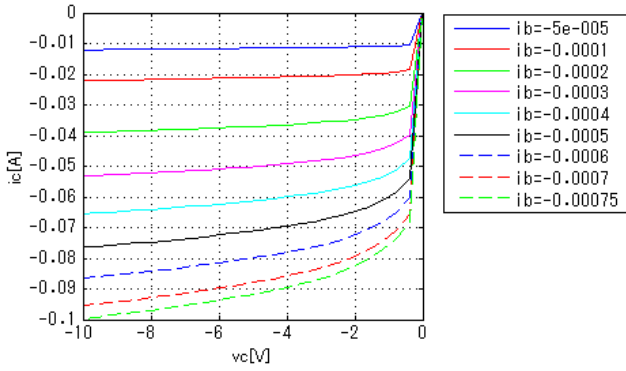
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-45	V
Base current (DC)	0	to	-10	A
Temperature	-65	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

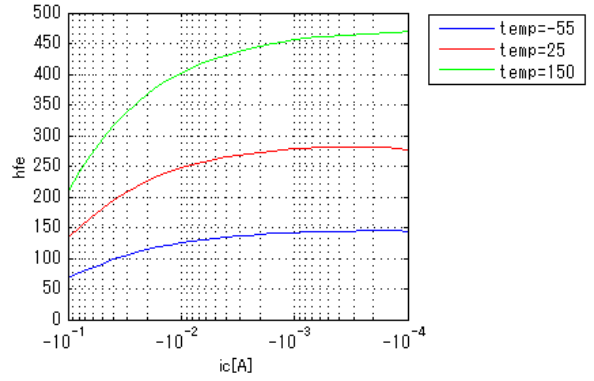
IcVce[ib]

Temp. = 25deg C



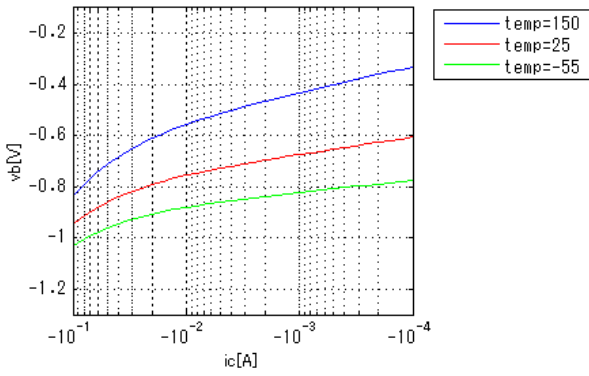
hFEIc[Temp]

Vce = -10V



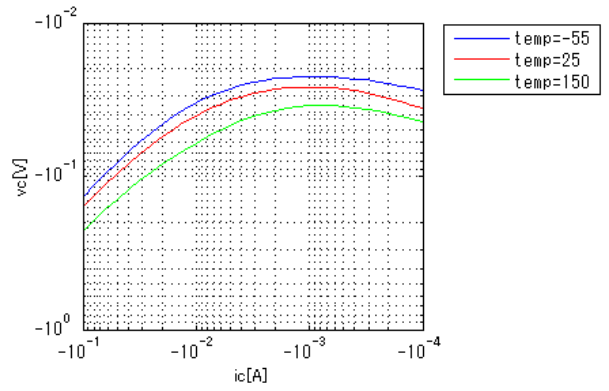
Vbe(sat)Ic[Temp]

IC/IB = 10



Vce(sat)Ic[Temp]

IC/IB = 10



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