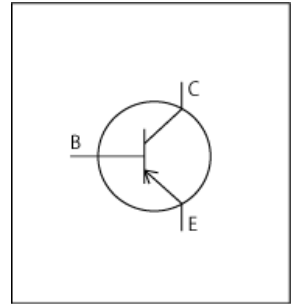


LTspice Model

PNP

Nexperia

BC807-25QA



Model Information

Model Mextram model
Call Name MDC_BC807-25QA_LT
Pin Assign 1:C 2:B 3:E
File List Model Library MDC_BC807-25QA_LT01.lib
 Model Report MDC_BC807-25QA_LT.pdf (this file)

Verified Simulator Version LTspice version XVII
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version Rev. 1 - 30 August 2013
- Product name BC807-25QA
- Company name Nexperia B.V.
- Characteristics $I_C V_{CE}[I_B], h_{FE} I_C[Temp], I_C V_{BE}[Temp], V_{BE}(sat) I_C[Temp], V_{CE}(sat) I_C[Temp]$

Simulation Range

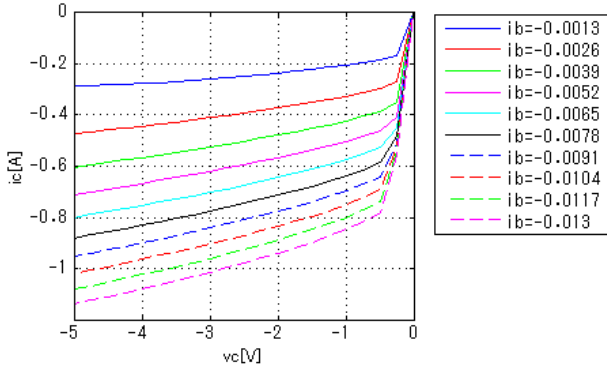
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-45	V
Base current (DC)	0	to	-50	A
Temperature	-65	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

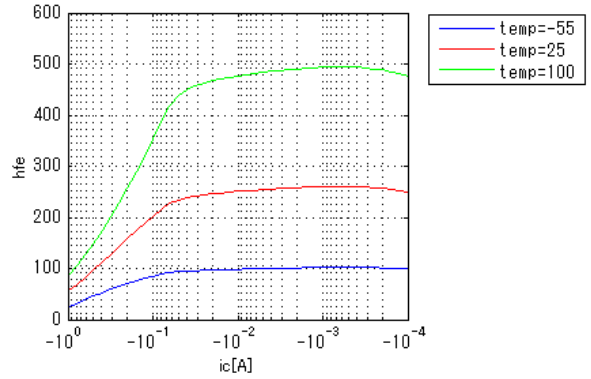
IcVce[ib]

Temp. = 25deg C



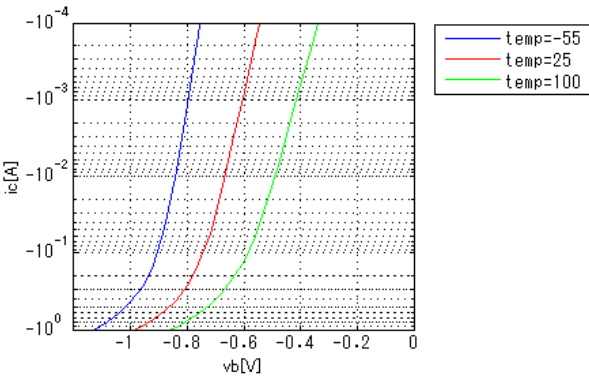
hFEIc[Temp]

Vce = -1V



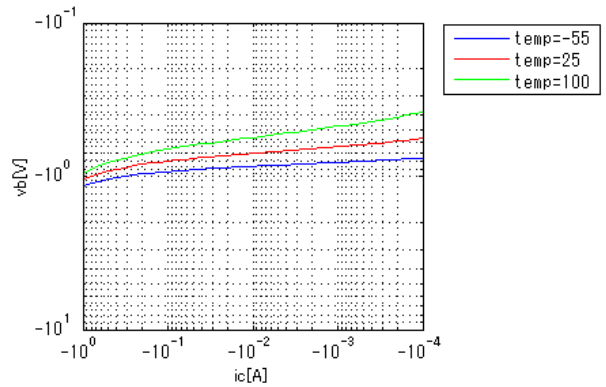
IcVbe[Temp]

Vce = -1V



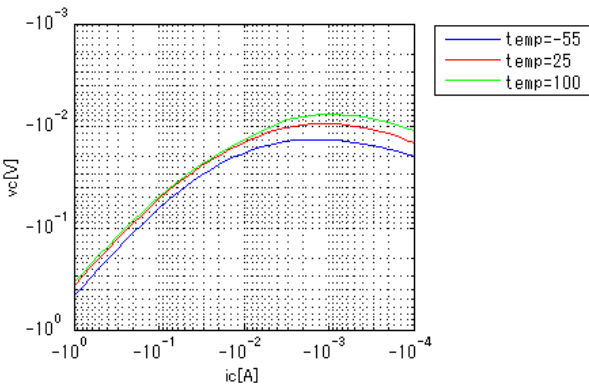
Vbe(sat)Ic[Temp]

IC/IB = 10



Vce(sat)Ic[Temp]

IC/IB = 10



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