

LTspice Model PNP ON KSH42C



Model Information

Model Mextram model
Call Name MDC_KSH42C_LT
Pin Assign 1:C 2:B 3:E
File List Model Library MDC_KSH42C_LT01.lib
 Model Report MDC_KSH42C_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. A4, October 2002
- Product name KSH42C
- Company name ON Semiconductor.
- Characteristics $I_c V_{ce}[I_b], h_{FE} I_c [Temp], V_{ce}(sat) I_c [Temp], V_{be}(sat) I_c [Temp], C_{ob}$

Simulation Range

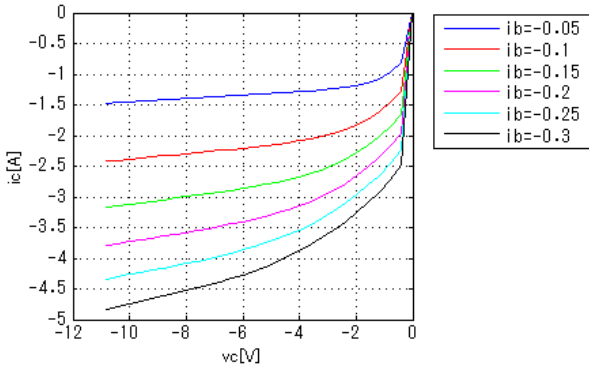
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-100	V
Base current (DC)	0	to	-2	A
Temperature	-65	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

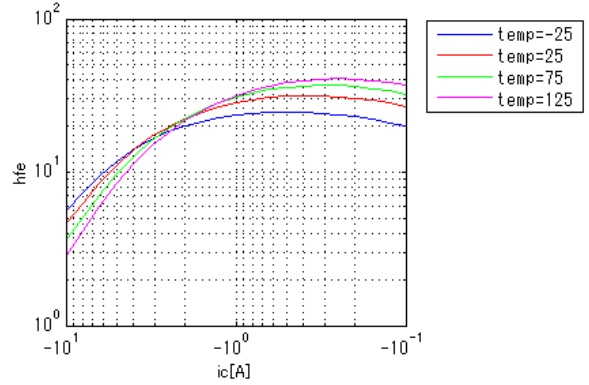
IcVce[ib]

Temp. = 25deg C



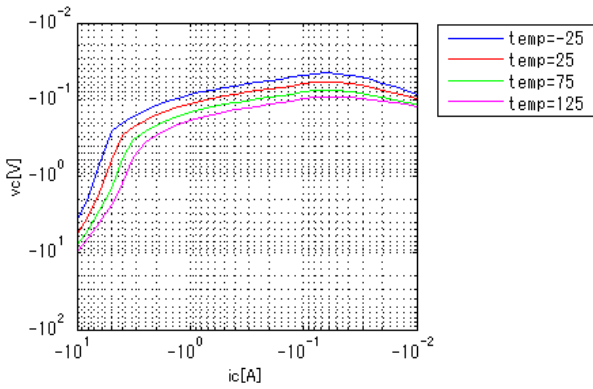
hFEIc[Temp]

Vce = -5V



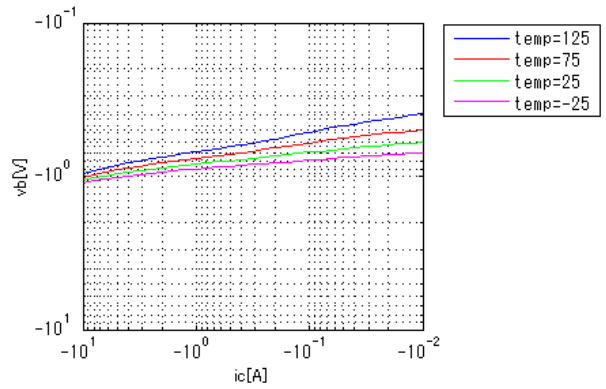
Vce(sat)Ic[Temp]

IC/IB = 5



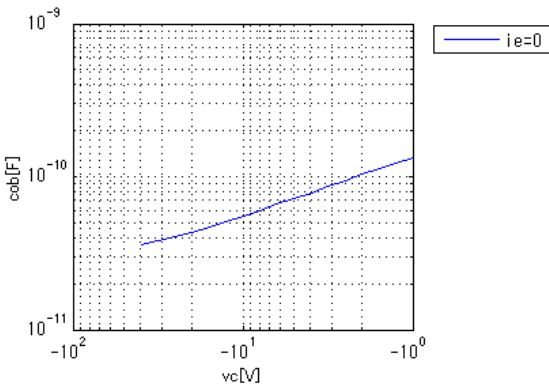
Vbe(sat)Ic[Temp]

IC/IB = 5



Cob

Freq. = 1MHz



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