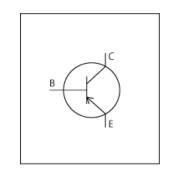


PSpice Model PNP ON KSH42C



Model Information

Model Mextram model
Call Name MDC_KSH42C_PS

Pin Assign 1:C 2:B 3:E
File List Model Library

Model Library MDC_KSH42C_PS01.lib
Model Report MDC_KSH42C_PS.pdf (this file)

Verified Simulator Version

Note

PSpice version 16.6

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version Rev. A4, October 2002

Product name KSH42C

Company nameON Semiconductor.

● Characteristics IcVce[ib],hFEIc[Temp],Vce(sat)Ic[Temp],Vbe(sat)Ic[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	Α
Temperature	-65	to	150	deg C

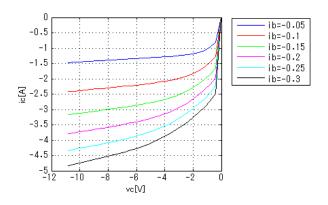


Simulation results are following.

Explanatory notes — : simulated

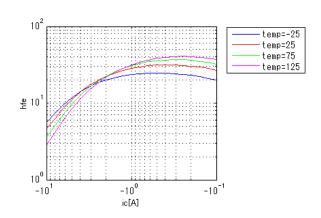
IcVce[ib]

Temp. = 25deg C



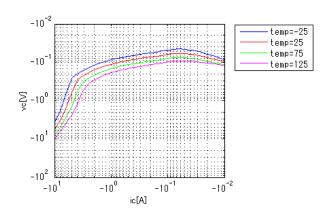
hFEIc[Temp]

Vce = -5V



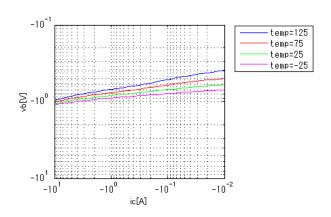
Vce(sat)lc[Temp]

IC/IB = 5



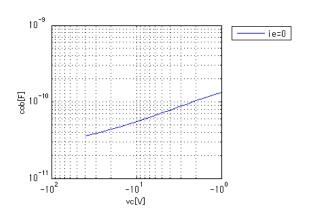
Vbe(sat)lc[Temp]

IC/IB = 5



Cob

Freq. = 1MHz





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