

PSpice Model

PNP

Diodes

2DA1971



Model Information

Model Mextram model
Call Name MDC_2DA1971_PS
Pin Assign 1:C 2:B 3:E
File List Model Library MDC_2DA1971_PS01.lib
 Model Report MDC_2DA1971_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: 3 - 2
- Product name 2DA1971
- Company name Diodes Incorporated
- Characteristics $I_c V_{be}[Temp]$, $h_{FE} I_c [Temp]$, $V_{ce(sat)} I_c [h_{FE}]$, $V_{ce(sat)} I_c [Temp]$, $V_{be(sat)} I_c [Temp]$

Simulation Range

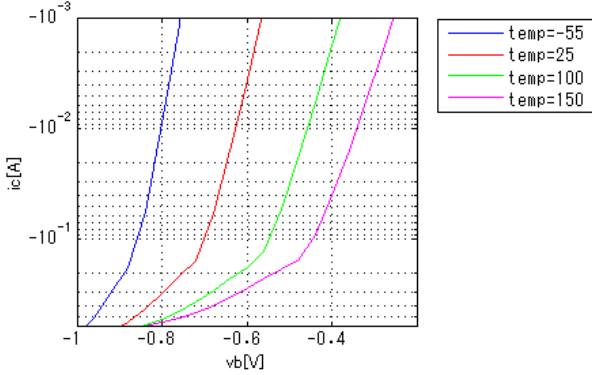
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-400	V
Base current (DC)	0	to	-250m	A
Temperature	-55	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

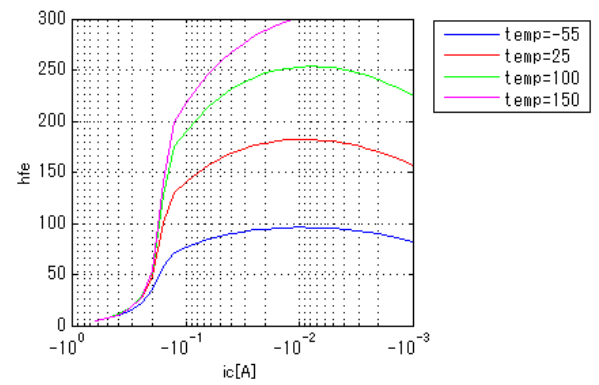
IcVbe[Temp]

Vce = -5V

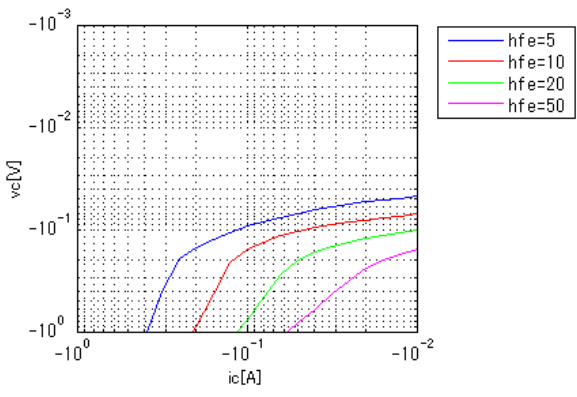


hFEIc[Temp]

Vce = -5V

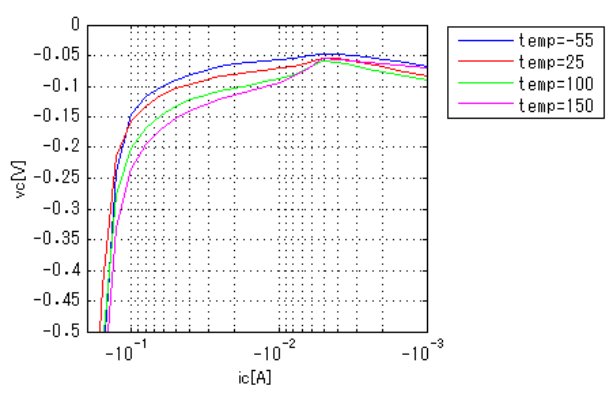


Vce(sat)Ic[hFE]



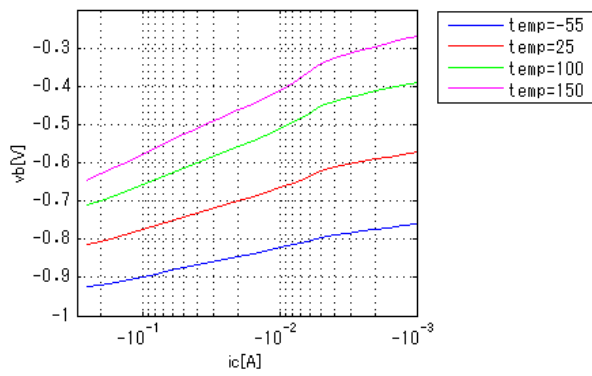
Vce(sat)Ic[Temp]

IC/IB = 10



Vbe(sat)Ic[Temp]

IC/IB = 10



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