

PSpice Model PNP Diodes 2DB1424R



Model Information

Model Mextram model
Call Name MDC_2DB1424R_PS
Pin Assign 1:C 2:B 3:E
File List Model Library MDC_2DB1424R_PS01.lib
 Model Report MDC_2DB1424R_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. 2 - 2
- Product name 2DB1424R
- Company name Diodes Incorporated
- Characteristics $I_C V_{CE}[I_B], h_{FE} I_C[Temp], V_{CE}(sat) I_C[Temp], I_C V_{BE}[Temp], V_{BE}(sat) I_C[Temp], C_{IB}, C_{OB}, f_T I_C[V_{CE}]$

Simulation Range

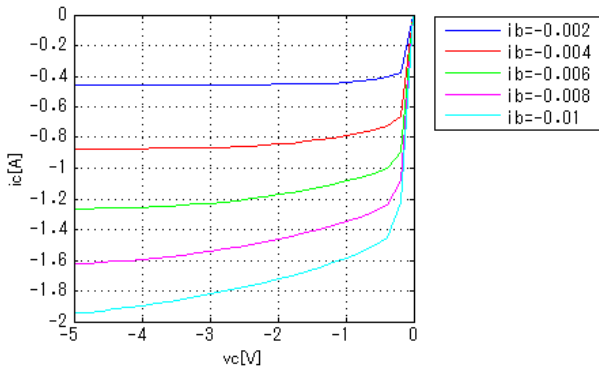
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-20	V
Base current (DC)	0	to	-0.150	A
Temperature	-55	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

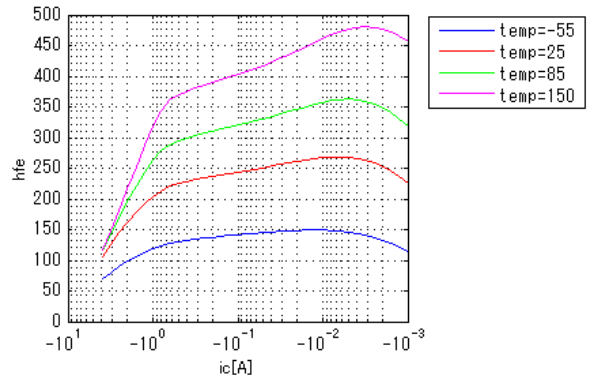
IcVce[ib]

Temp. = 25deg C



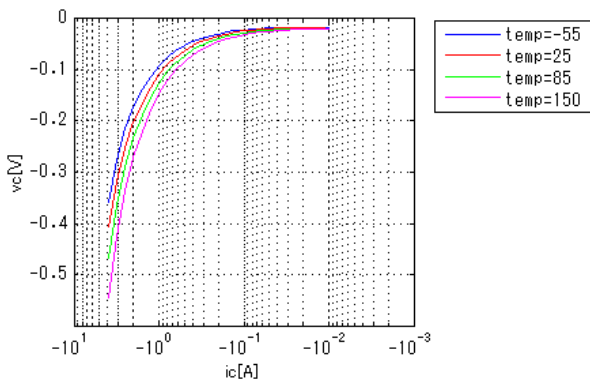
hFEIc[Temp]

Vce = -2V



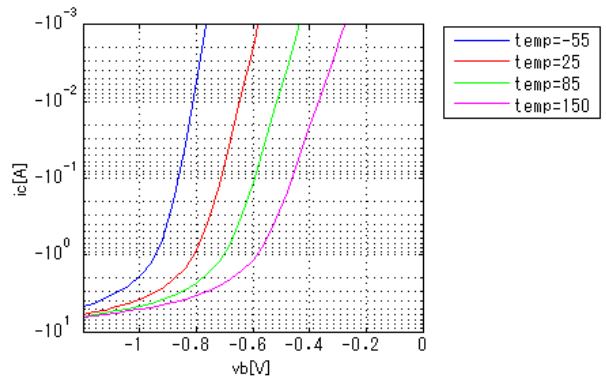
Vce(sat)Ic[Temp]

IC/IB = 20



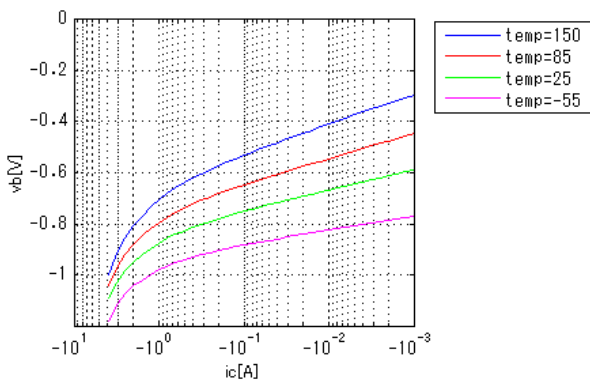
IcVbe[Temp]

Vce = -2V



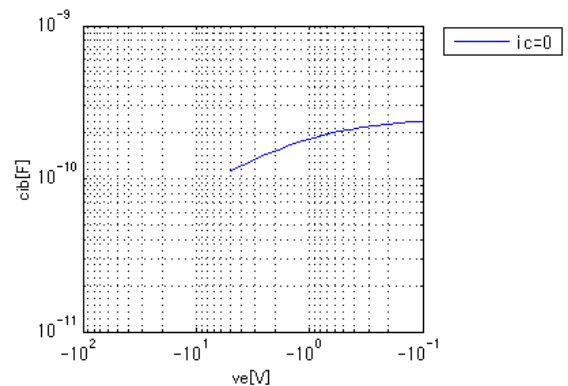
Vbe(sat)Ic[Temp]

IC/IB = 20



Cib

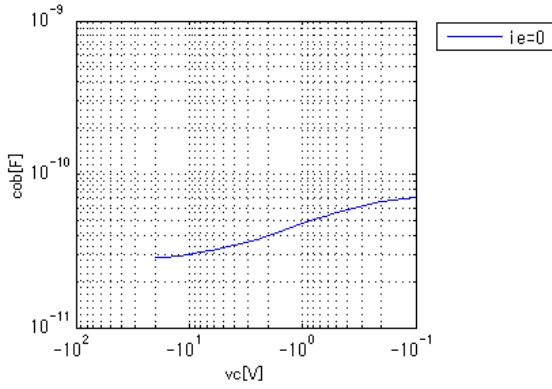
Freq. = 1MHz



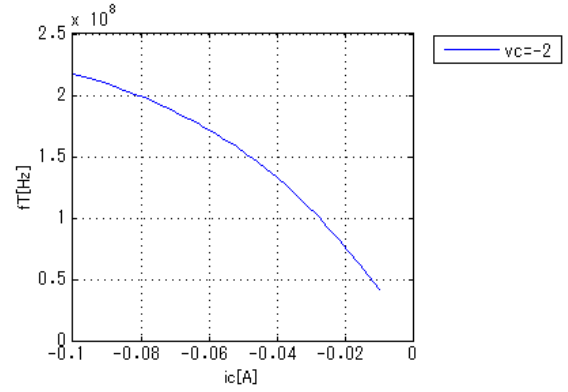
Simulation results are following.
 Explanatory notes — : simulated

Cob

Freq. = 1MHz



fTic[Vce]



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