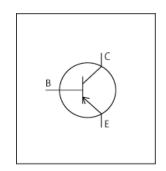


PSpice Model PNP Diodes 2DB1424R



Model Information

Model Gummel-Poon model Call Name MDC_2DB1424R_PS

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

Model Library MDC_2DB1424R_PS02.lib
Model Report MDC_2DB1424R_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/VersionProduct nameRev. 2 - 22DB1424R

Company name Diodes Incorporated

● Characteristics IcVce[ib],hFEIc[Temp],Vce(sat)lc[Temp],IcVbe[Temp],Vbe(s

at)Ic[Temp],Cib,Cob,fTIc[Vce]

Simulation Range

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

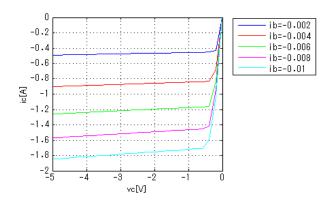
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-20	V
Base current (DC)	0	to	-0.150	Α
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

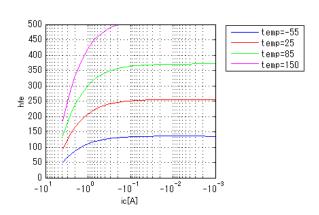
IcVce[ib]

Temp. = 25deg C



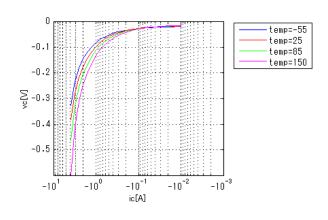
hFEIc[Temp]

Vce = -2V



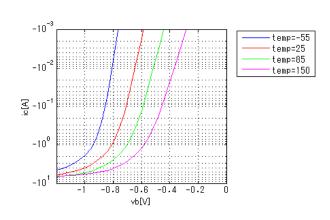
Vce(sat)lc[Temp]

IC/IB = 20



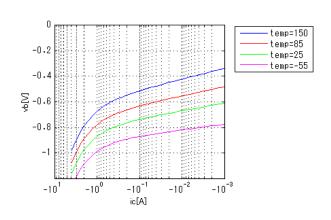
IcVbe[Temp]

Vce = -2V



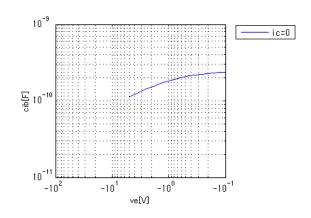
Vbe(sat)lc[Temp]

IC/IB = 20



Cib

Freq. = 1MHz

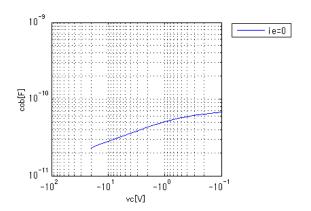




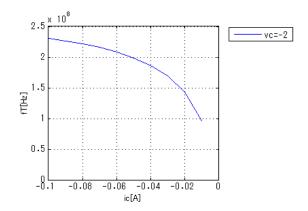
Simulation results are following. Explanatory notes — : simulated

Cob

Freq. = 1MHz



fTIc[Vce]





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MoDeCH Inc.

Head Office

Location: Mitsuiseimei Hachioji Bldg., 5-15 Yokoyama-cho, Hachioji-Shi, Tokyo 192-0081, Japan

Tel:+81-42-656-3360

E-Mail:model-on-support@modech.co.jp

URL:http://www.modech.com/en/