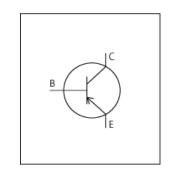


PSpice Model PNP Diodes 2DB1713



Model Information

Model MEXTRAM

Call Name MDC_2DB1713_PS

Pin Assign 1:C 2:B 3:E

File List Model Library MDC_2DB1713_PS01.lib

Model Report MDC_2DB1713_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 - 22DB1713

Company name Diodes Incorporated

● Characteristics IcVce[ib],hFEIc[Temp],Vce(sat)Ic[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	-12	V
Temperature	-55	to	150	deg C



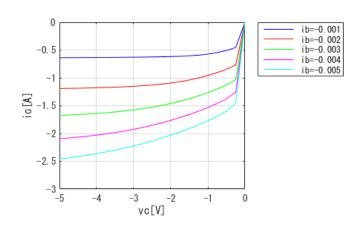
Simulation results are following. Explanatory notes — : simulated

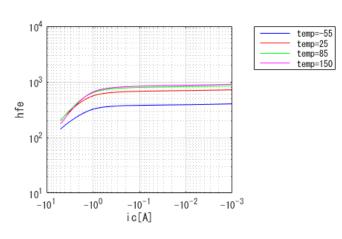
IcVce[ib]

Temp. = 25deg C

hFEIc[Temp]

Vce = -2V



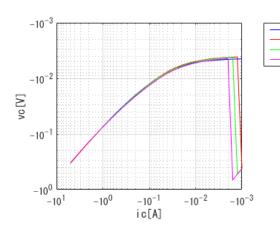


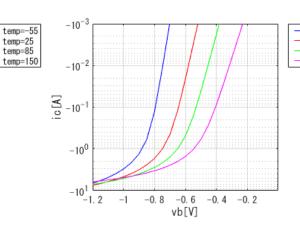
Vce(sat)lc[Temp]

IC/IB = 20

IcVbe[Temp]

Vce = -2V



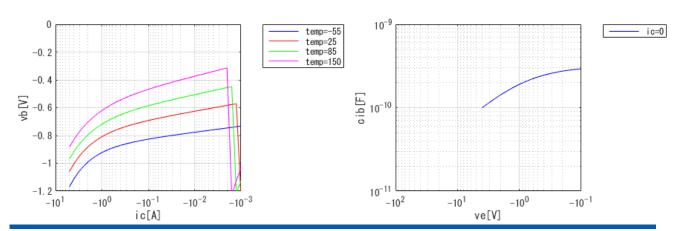


Vbe(sat)lc[Temp]

IC/IB = 20

Cib

Freq. = 1MHz



temp=-55

temp=25

temp=85

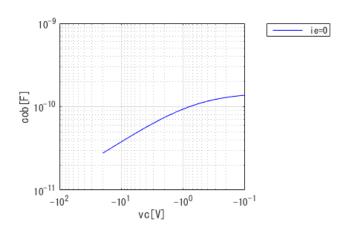
temp=150



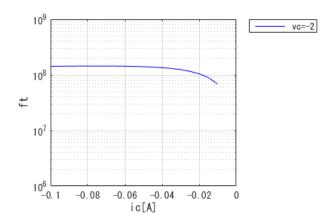
Simulation results are following. Explanatory notes — : simulated

Cob

Freq. = 1MHz



fTlc[Vce]





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