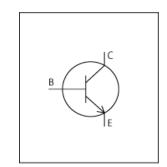


PSpice Model NPN RENESAS 2SD2402



Model Information

Model Mextram model
Call Name MDC_2SD2402_PS

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

Model Library MDC_2SD2402_PS01.lib
Model Report MDC_2SD2402_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 nameNovember 19942SD2402

Company name
Renesas Electronics Corporation

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

at)Ic[hFE],fTIc[Vce],Cob

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	30	V
Base current (DC)	0	to	0.2	Α
Temperature	-55	to	150	deg C

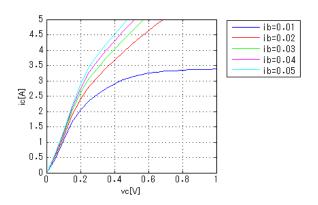


Simulation results are following.

Explanatory notes — : simulated

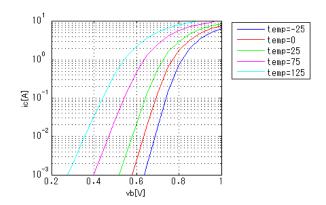
IcVce[ib]

Temp. = 25deg C



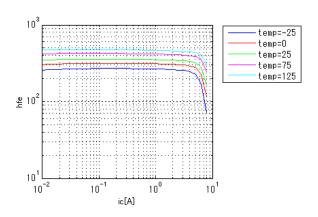
IcVbe[Temp]

Vce = 1V



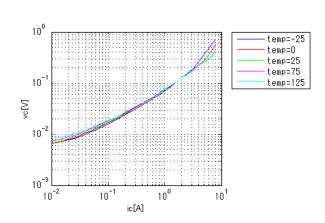
hFEIc[Temp]

Vce = 1V

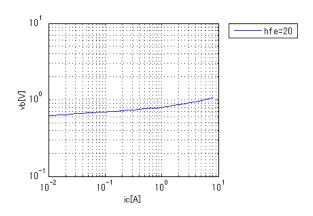


Vce(sat)lc[Temp]

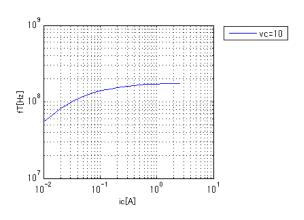
IC/IB = 20



Vbe(sat)lc[hFE]



fTIc[Vce]

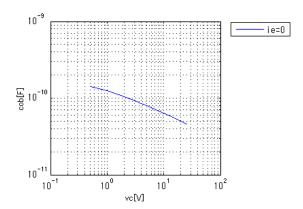




Simulation results are following. Explanatory notes — : simulated

Cob

Freq. = 1MHz





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