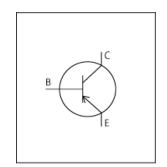


PSpice Model PNP RENESAS 2SA1611



Model Information

Model Mextram model
Call Name MDC_2SA1611_PS

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

Model Library MDC_2SA1611_PS01.lib
Model Report MDC_2SA1611_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 nameUnknown2SA1611

Company name
 Renesas Electronics Corporation

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

FEIc[Vce],hFEIc[Temp],fTIc[Vce],Cob

Simulation Range

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

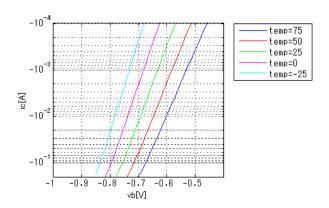
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-50	V
Base current (DC)	0	to	-10	Α
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

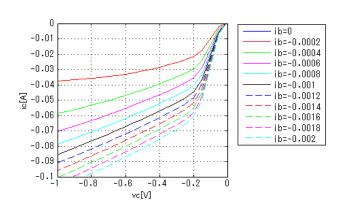
IcVbe[Temp]

Vce = -6V



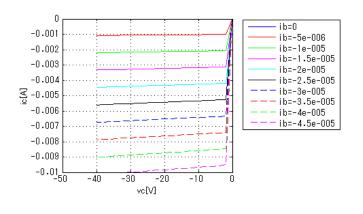
IcVce[ib]

Temp. = 25deg C



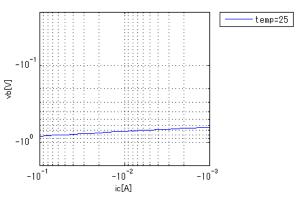
IcVce[ib]

Temp. = 25deg C



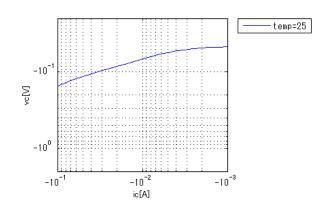
Vbe(sat)lc[Temp]

IC/IB = 10

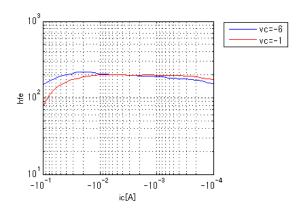


Vce(sat)lc[Temp]

IC/IB = 10



hFEIc[Vce]

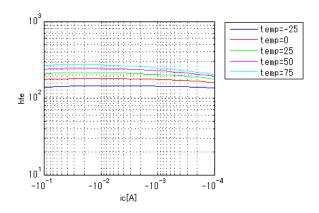




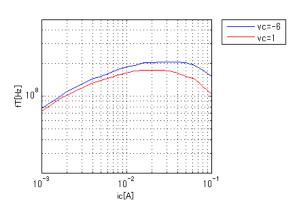
Simulation results are following. Explanatory notes — : simulated

hFElc[Temp]

Vce = -6V

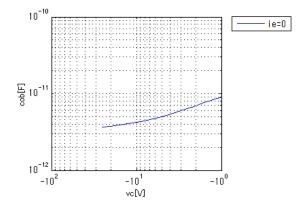


fTIc[Vce]



Cob

Freq. = 1MHz





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