

MDC_2SC4552_PS

PSpice Model NPN RENESAS 2SC4552

Model Information

Model Mextram model Call Name MDC 2SC4552 PS Pin Assign 1:C 2:B 3:E File List Model Library Model Report

MDC_2SC4552_PS01.lib MDC_2SC4552_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/Version

July 2001 Product name 2SC4552 Company name **Renesas Electronics Corporation** IcVce[ib],hFEIc[Temp],Vce(sat)Ic[Temp],Vbe(sat)Ic[Temp],fT Characteristics Ic[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	60	V
Base current (DC)	0	to	8	А
Temperature	-55	to	150	deg C

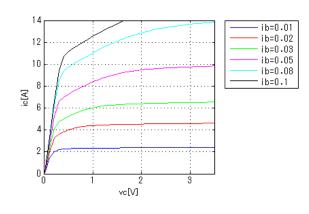




Simulation results are following. Explanatory notes — : simulated

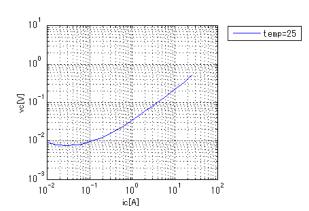
IcVce[ib]

Temp. = 25deg C

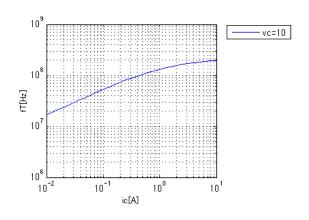


Vce(sat)lc[Temp]

IC/IB = 20



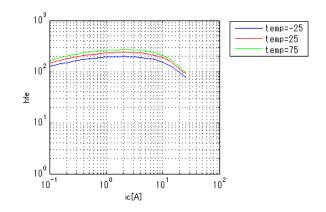




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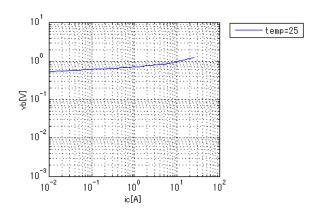
hFElc[Temp]

Vce = 2V

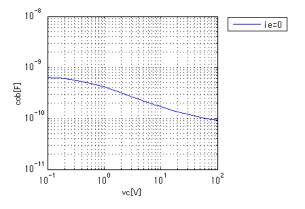


Vbe(sat)lc[Temp]

IC/IB = 20



Cob Freq. = 1MHz





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