

MDC_2SB1198KFRA_PS

PSpice Model PNP ROHM 2SB1198KFRA

Model Information

ModelMextram modelCall NameMDC_2SB1198KFRA_PSPin Assign1:C 2:B 3:EFile ListModel LibraryMModel ReportM

MDC_2SB1198KFRA_PS01.lib MDC_2SB1198KFRA_PS.pdf (this file)

Verified Simulator Version Note

PSpice version 16.6

References

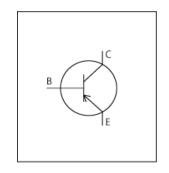
The information which was used for modeling is as follow:

20160909 - Rev.001 2SB1198KFRA ROHM Co., Ltd. IcVce[ib],IcVbe[Temp],hFEIc[Temp],hFEIc[Vce],Vce(sat)Ic[T emp],Vce(sat)Ic[hFE],Vbe(sat)Ic[Temp],fTIc[Vce],Cib,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	-80	V
Base current (DC)	0	to	-50	А
Temperature	-55	to	150	deg C

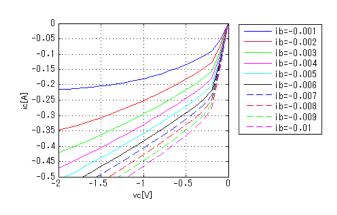




Simulation results are following. Explanatory notes — : simulated

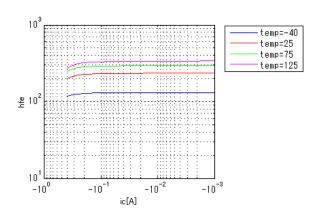
lcVce[ib]





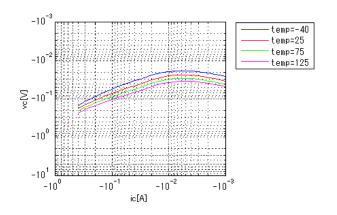
hFEIc[Temp]

Vce = -3V



Vce(sat)lc[Temp]

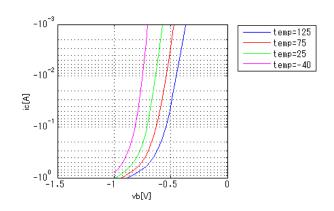
IC/IB = 10



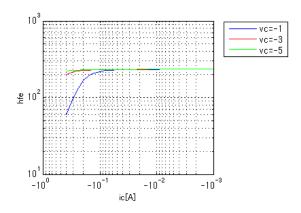
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IcVbe[Temp]

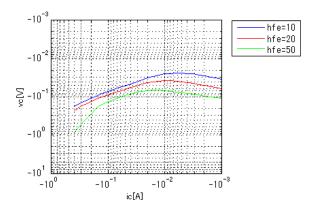
Vce = -3V



hFEIc[Vce]



Vce(sat)lc[hFE]

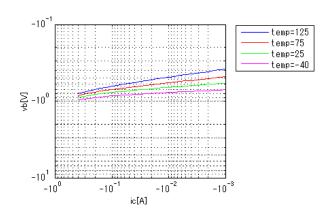




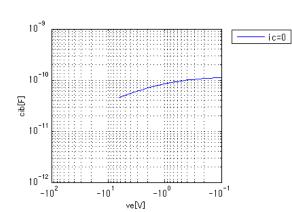
Simulation results are following. Explanatory notes -: simulated

Vbe(sat)Ic[Temp]

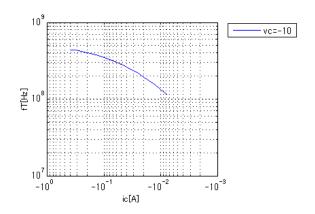
IC/IB = 10



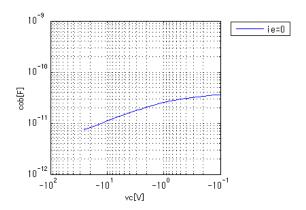
Cib Freq. = 1MHz



fTlc[Vce]



Cob Freq. = 1MHz





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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/