

MDC_2SC3906K_PS

PSpice Model NPN ROHM 2SC3906K

Model Information

ModelMextram modelCall NameMDC_2SC3906K_PSPin Assign1:C 2:B 3:EFile ListModel Library
Model Report

MDC_2SC3906K_PS02.lib MDC_2SC3906K_PS.pdf (this file)

Verified Simulator Version Note

PSpice version 16.6

References

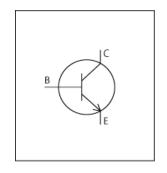
The information which was used for modeling is as follow:

20150909 - Rev.001 2SC3906K 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],Cob,Cib

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	120	V
Base current (DC)	0	to	5	А
Temperature	-55	to	150	deg C

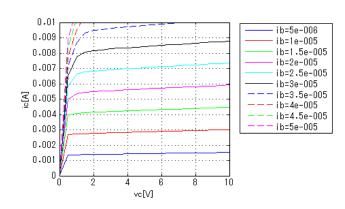




Simulation results are following. Explanatory notes -: simulated

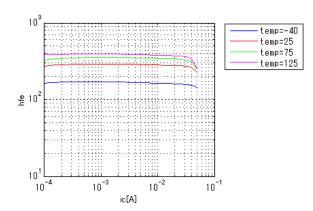
lcVce[ib]

Temp. = 25deg C



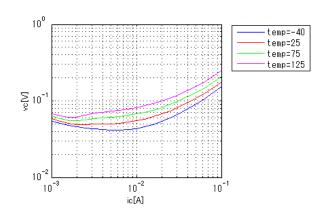
hFElc[Temp]

Vce = 6V



Vce(sat)lc[Temp]

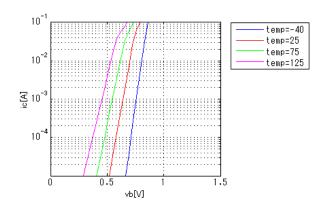
IC/IB = 10



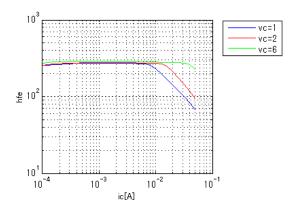
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lcVbe[Temp]

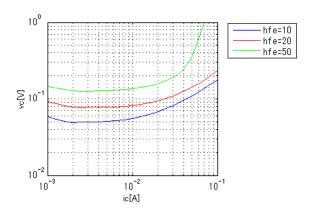
Vce = 6V



hFElc[Vce]



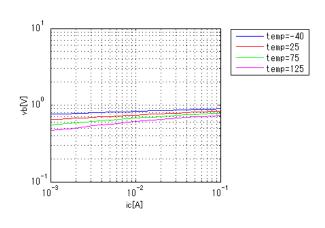
Vce(sat)lc[hFE]





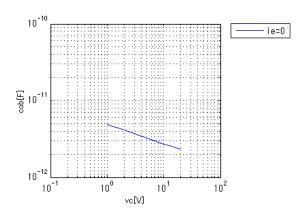
Vbe(sat)Ic[Temp]

IC/IB = 10

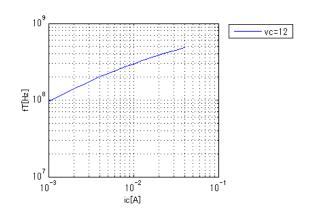


Cob

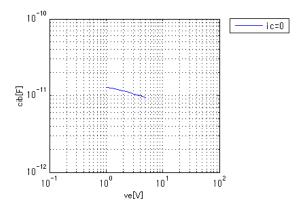
Freq. = 1MHz



fTlc[Vce]









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