

MDC_2SC4081_PS

PSpice Model NPN JCET 2SC4081

Model Information

ModelGummel-Poon modelCall NameMDC_2SC4081_PSPin Assign1:C 2:B 3:EFile ListModel Library
Model Report

MDC_2SC4081_PS02.lib MDC_2SC4081_PS.pdf (this file)

Verified Simulator Version Note

PSpice version 16.6

References

The information which was used for modeling is as follow:

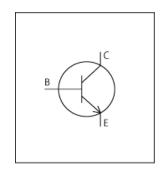
[Data Sheet]
Date/Version
Product name
Company name
Characteristics

B,Sep,2014 2SC4081 Jiangsu Changjiang Electronics Technology Co., Ltd. IcVce[ib],hFEIc[Temp],Vbe(sat)Ic[Temp],Vce(sat)Ic[Temp],Ic Vbe[Temp],Cob,Cib,fTIc[Vce]

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	15	А
Temperature	-55	to	150	deg C

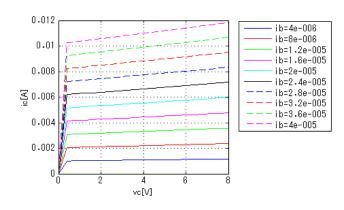




Simulation results are following. Explanatory notes — : simulated

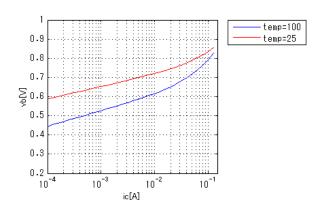
lcVce[ib]

Temp. = 25deg C



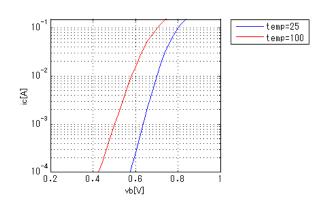
Vbe(sat)lc[Temp]

IC/IB = 10



IcVbe[Temp]

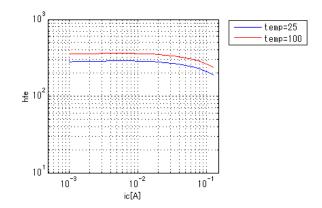
Vce = 6V



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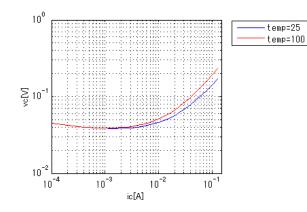
hFElc[Temp]

Vce = 6V

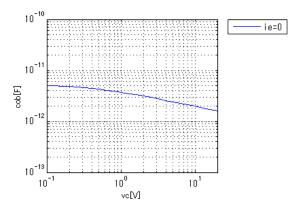


Vce(sat)lc[Temp]

IC/IB = 10



Cob Freq. = 1MHz

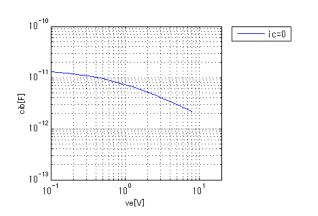




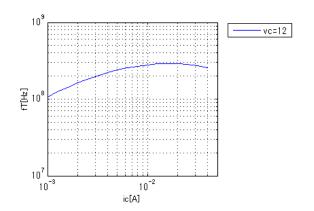
Simulation results are following. Explanatory notes -: simulated







fTIc[Vce]





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