

MDC_BC817-16-G_LT

LTspice Model NPN Comchip BC817-16-G

Model Information

ModelGummel-Poon modelCall NameMDC_BC817-16-G_LTPin Assign1:C 2:B 3:EFile ListModel Library
Model Report

MDC_BC817-16-G_LT01.lib MDC_BC817-16-G_LT.pdf (this file)

Verified Simulator Version Note

LTspice version XVII

References

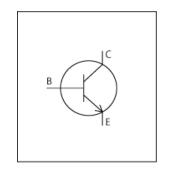
The information which was used for modeling is as follow:

REV:B BC817-16-G Comchip 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	45	V
Base current (DC)	0	to	50	А
Temperature	-55	to	150	deg C

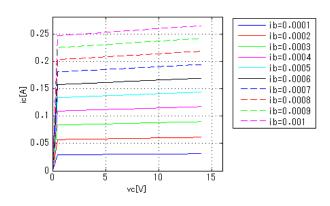




Simulation results are following. Explanatory notes -: simulated

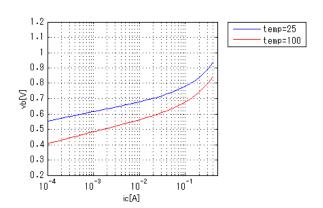
IcVce[ib]

Temp. = 25deg C



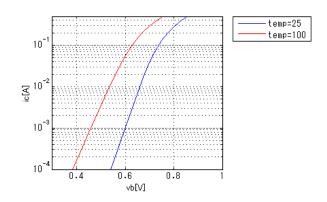
Vbe(sat)lc[Temp]

IC/IB = 10



IcVbe[Temp]

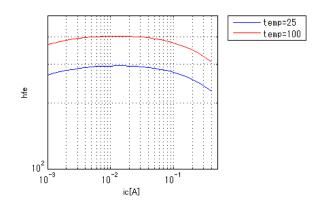
Vce = 1V



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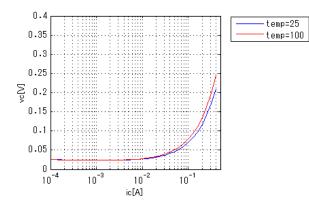
hFElc[Temp]

Vce = 1V

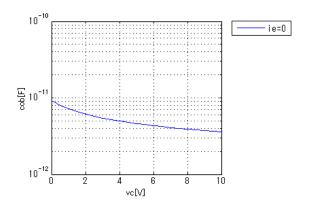


Vce(sat)lc[Temp]

IC/IB = 10



Cob Freq. = 1MHz

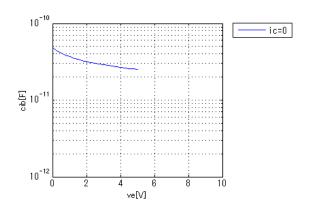




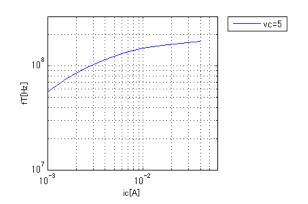
Simulation results are following. Explanatory notes -: simulated



Freq. = 1MHz



fTIc[Vce]





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