

MDC_2SC4154_LT

LTspice Model NPN Isahaya 2SC4154

Model Information

ModelGummel-Poon modelCall NameMDC_2SC4154_LTPin Assign1:C 2:B 3:EFile ListModel Library
Model Report

MDC_2SC4154_LT00.lib MDC_2SC4154_LT.pdf (this file)

Verified Simulator Version Note

LTspice version XVII

References

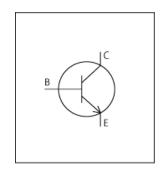
The information which was used for modeling is as follow:

None 2SC4154 Isahaya Electronics Corporation IcVce[ib],hFEIc[Temp],Vce(sat)Ic[Temp],IcVbe[Temp],IbVbe[Temp],Cob,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	20	А
Temperature	-55	to	150	deg C

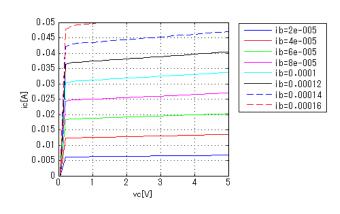




Simulation results are following. Explanatory notes -: simulated

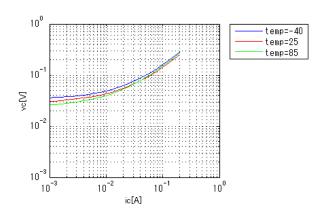
IcVce[ib]

Temp. = 25deg C



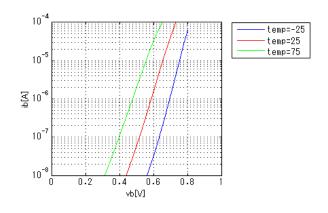
Vce(sat)lc[Temp]

IC/IB = 10



lbVbe[Temp]

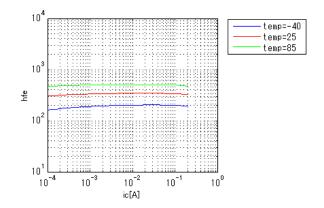
Vce = 6V



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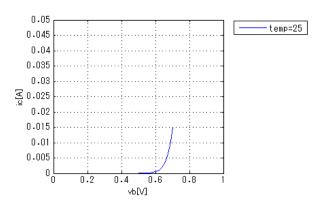
hFElc[Temp]

Vce = 6V

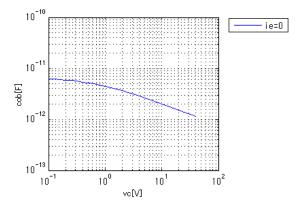


IcVbe[Temp]

Vce = 6V



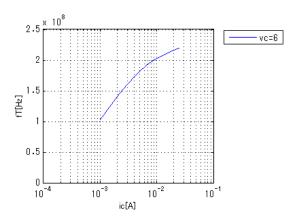
Cob Freq. = 1MHz





Simulation results are following. Explanatory notes -: simulated

fTIc[Vce]





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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/