

MDC_2SA1037AKFRA_PS

PSpice Model PNP ROHM 2SA1037AKFRA

Model Information

 Model
 Mextram model

 Call Name
 MDC_2SA1037AKFRA_PS

 Pin Assign
 1:C 2:B 3:E

 File List
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 MDC_MODE

 Model Report
 MDC_MODE

MDC_2SA1037AKFRA_PS01.lib MDC_2SA1037AKFRA_PS.pdf (this file)

Verified Simulator Version Note

PSpice version 16.6

References

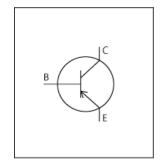
The information which was used for modeling is as follow:

2012.01 - Rev.C 2SA1037AKFRA ROHM Co., Ltd. IcVbe[Temp],IcVce[ib],hFEIc[Vce],hFEIc[Temp],Vce(sat)Ic[h FE],Vce(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	-50	V
Base current (DC)	0	to	-0.0150	А
Temperature	-55	to	150	deg C

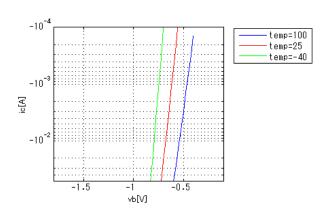




Simulation results are following. Explanatory notes — : simulated

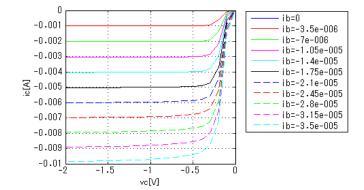
IcVbe[Temp]





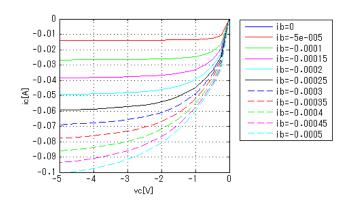
lcVce[ib]

Temp. = 25deg C



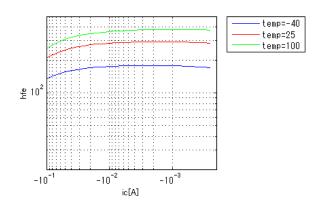
lcVce[ib]

Temp. = 25deg C

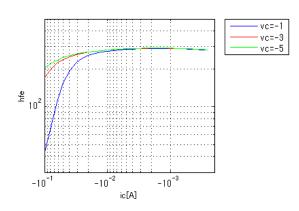


hFElc[Temp]

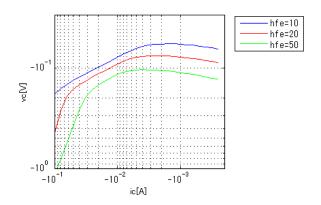
Vce = -6V



hFElc[Vce]



Vce(sat)lc[hFE]



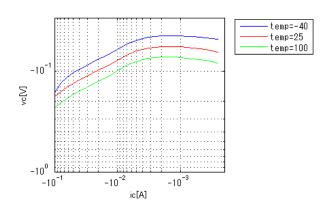
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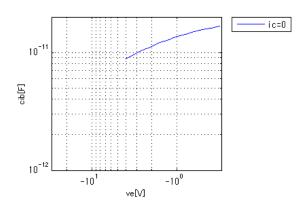
Simulation results are following. Explanatory notes -: simulated

Vce(sat)lc[Temp]

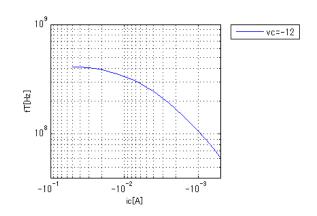
IC/IB = 10



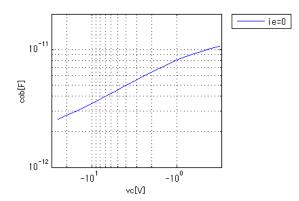
Cib Freq. = 1MHz



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/