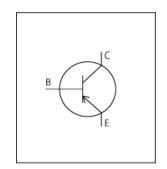


PSpice Model PNP ROHM 2SA1774FRA



Model Information

Model Mextram model

Call Name MDC_2SA1774FRA_PS

Pin Assign 1:C 2:B 3:E File List Model Libra

Model Library MDC_2SA1774FRA_PS01.lib

Model Report MDC_2SA1774FRA_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/VersionProduct nameCompany name2012.01 - Rev.C2SA1774FRAROHM Co., Ltd.

● Characteristics IcVbe[Temp],IcVce[ib],hFEIc[Vce],hFEIc[Temp],Vce(sat)Ic[h

FE], Vce(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.

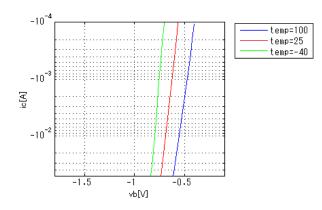
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-50	V
Base current (DC)	0	to	-0.0150	А
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

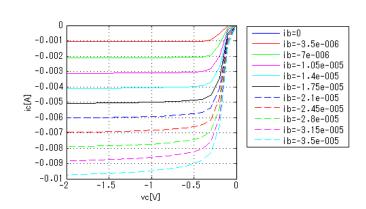
IcVbe[Temp]

Vce = -6V



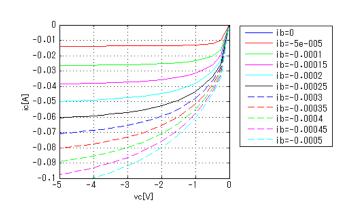
IcVce[ib]

Temp. = 25deg C

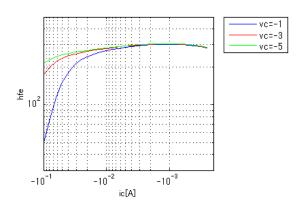


IcVce[ib]

Temp. = 25deg C

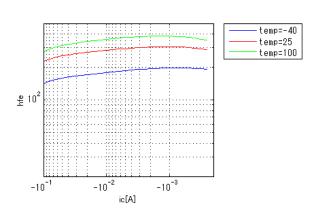


hFEIc[Vce]

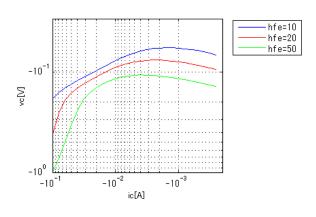


hFEIc[Temp]

Vce = -6V



Vce(sat)lc[hFE]

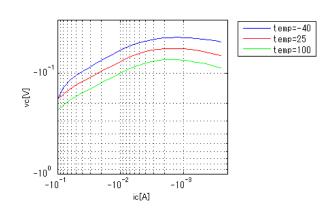




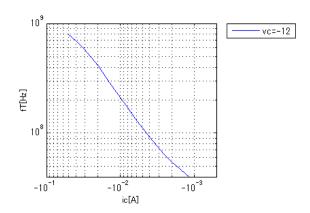
Simulation results are following. Explanatory notes — : simulated

Vce(sat)lc[Temp]

IC/IB = 10

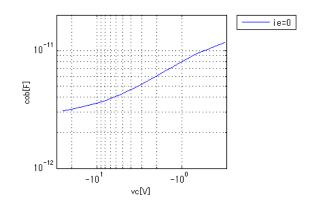


fTlc[Vce]



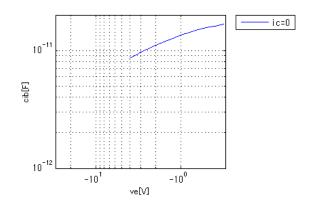
Cob

Freq. = 1MHz



Cib

Freq. = 1MHz





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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/