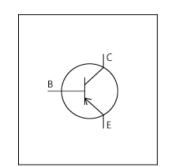


# PSpice Model PNP ROHM 2SA1576AFRA



# **Model Information**

Model Gummel-Poon model Call Name MDC\_2SA1576AFRA\_PS

Pin Assign 1:C 2:B 3:E

File List Model Library MDC\_2SA1576AFRA\_PS02.lib

Model Report MDC\_2SA1576AFRA\_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.C2SA1576AFRAROHM 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.

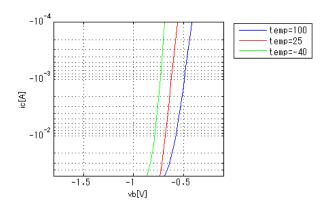
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-50	V
Base current (DC)	0	to	-0.0150	Α
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

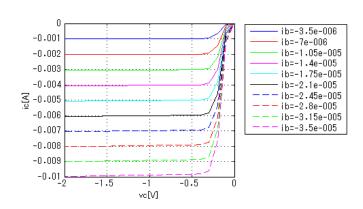
### IcVbe[Temp]

Vce = -6V



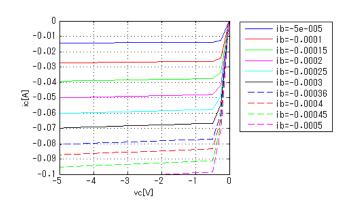
#### IcVce[ib]

Temp. = 25deg C

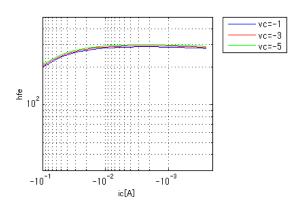


#### IcVce[ib]

Temp. = 25deg C

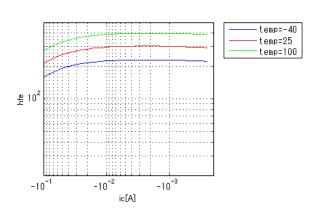


#### hFEIc[Vce]

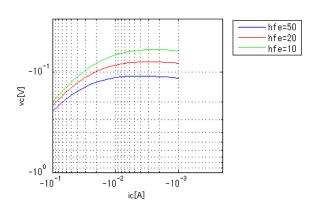


#### hFEIc[Temp]

Vce = -6V



#### Vce(sat)lc[hFE]

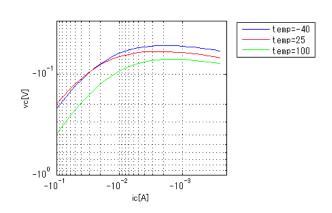




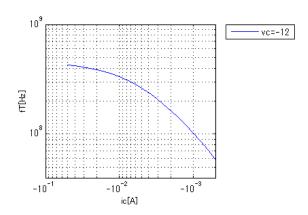
Simulation results are following. Explanatory notes — : simulated

## Vce(sat)lc[Temp]

IC/IB = 10

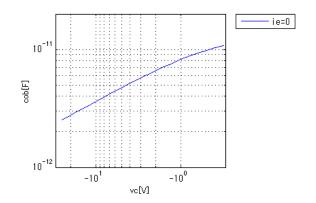


## fTlc[Vce]



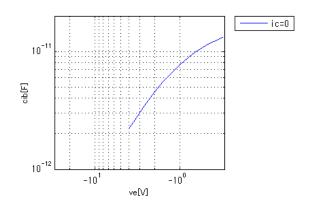
#### Cob

Freq. = 1MHz



## Cib

Freq. = 1MHz





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