

# PSpice Model PNP+PNP ROHM IMT17

## **Model Information**

Model Mextram model
Call Name MDC\_IMT17\_PS
Pin Assign 1:C 2:B 3:E

Model Library MDC\_IMT17\_PS01.lib

Model Report MDC\_IMT17\_PS.pdf (this file)

**Verified Simulator Version** 

Note

**File List** 

PSpice version 16.6

#### References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version UnknownProduct name IMT17

●Company name ROHM Co., Ltd.

● Characteristics IcVce[ib],IcVbe[Temp],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.

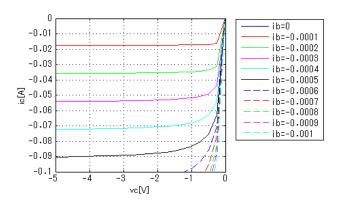
| Item                           | Range |    |      | Unit  |
|--------------------------------|-------|----|------|-------|
|                                | Min.  |    | Max. |       |
| Collector-emitter voltage (DC) | 0     | to | -50  | V     |
| Base current (DC)              | 0     | to | -50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



Simulation results are following. Explanatory notes — : simulated

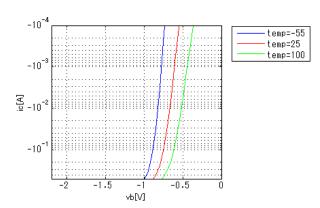
### IcVce[ib]

Temp. = 25deg C

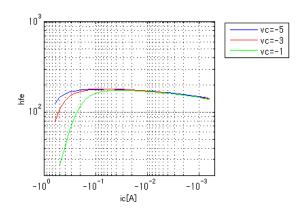


#### IcVbe[Temp]

Vce = -3V

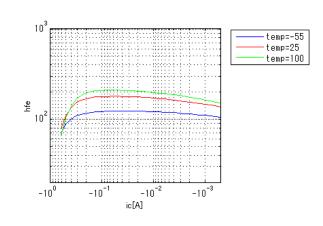


## hFEIc[Vce]

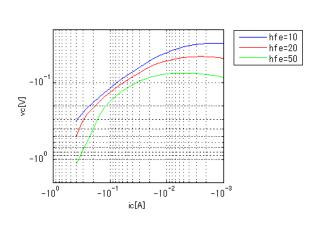


#### hFElc[Temp]

Vce = -3V

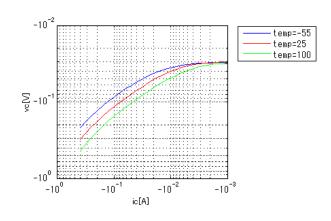


## Vce(sat)lc[hFE]



### Vce(sat)lc[Temp]

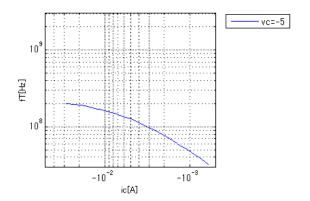
IC/IB = 10





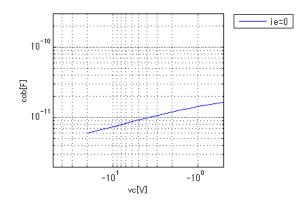
Simulation results are following. Explanatory notes — : simulated

# fTIc[Vce]



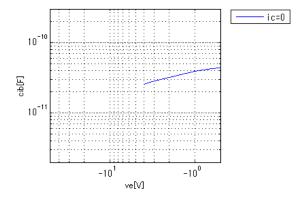
#### Cob

Freq. = 1MHz



#### Cib

Freq. = 1MHz





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