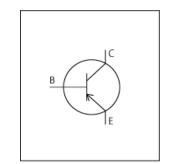


# PSpice Model PNP RENESAS 2SB1261



# **Model Information**

Model Mextram model
Call Name MDC\_2SB1261\_PS

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

Model Library MDC\_2SB1261\_PS01.lib
Model Report MDC\_2SB1261\_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/VersionDecember,2007

Product nameCompany nameSB1261Renesas Electronics Corporation

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

at)Ic[Temp],fTIc[Vce],Cob

#### Simulation Range

This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

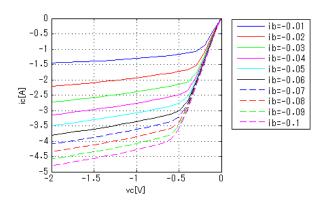
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-60	V
Base current (DC)	0	to	-0.50	А
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

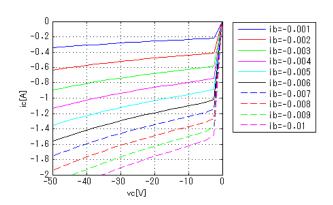
#### IcVce[ib]

Temp. = 25deg C



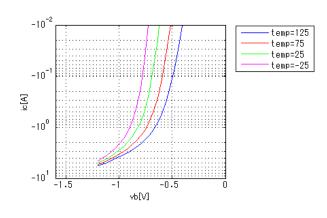
#### IcVce[ib]

Temp. = 25deg C



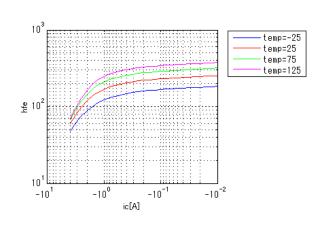
#### IcVbe[Temp]

Vce = -2V



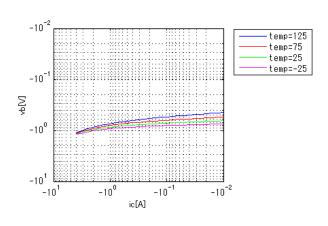
### hFElc[Temp]

Vce = -2V



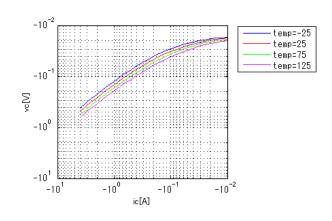
### Vbe(sat)lc[Temp]

IC/IB = 10



### Vce(sat)Ic[Temp]

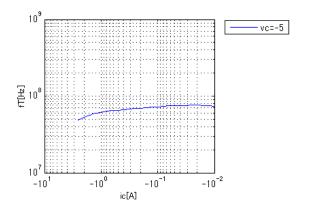
IC/IB = 10





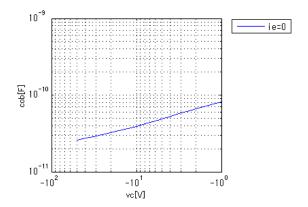
Simulation results are following. Explanatory notes — : simulated

## fTIc[Vce]



### Cob

Freq. = 1MHz





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