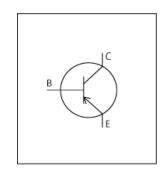


# PSpice Model PNP RENESAS 2SB1115YK-T1-AZ



# **Model Information**

Model Gummel-Poon model

Call Name MDC 2SB1115YK-T1-AZ PS

Pin Assign 1:C 2:B 3:E

File List Model Library MDC\_2SB1115YK-T1-AZ\_PS02.lib

Model Report MDC\_2SB1115YK-T1-AZ\_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 nameFebruary 20062SB1115YK-T1-AZ

Company name
Renesas Electronics Corporation

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

Ic[Vce],Cob

#### Simulation Range

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

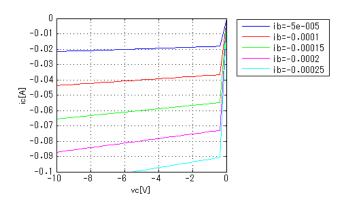
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-50	V
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

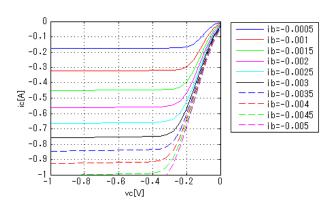
#### IcVce[ib]

Temp. = 25deg C



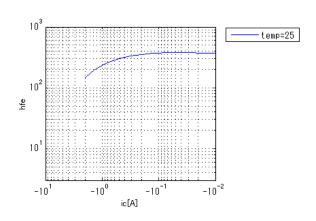
#### IcVce[ib]

Temp. = 25deg C



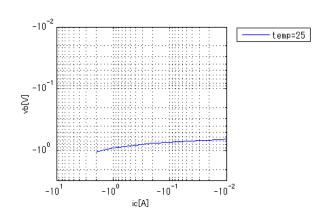
#### hFEIc[Temp]

Vce = -2V



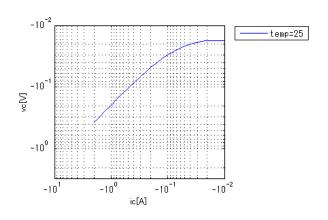
#### Vbe(sat)lc[Temp]

IC/IB = 20

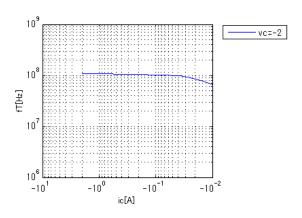


## Vce(sat)lc[Temp]

IC/IB = 20



## fTlc[Vce]

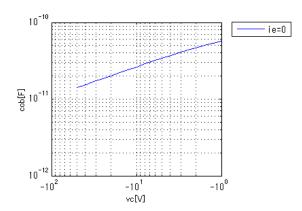




Simulation results are following. Explanatory notes — : simulated

#### Cob

Freq. = 1MHz





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