

## MDC\_2SB799\_PS

# PSpice Model PNP RENESAS 2SB799

# **Model Information**

ModelMextram modelCall NameMDC\_2SB799\_PSPin Assign1:C 2:B 3:EFile ListModel Library<br/>Model Report

MDC\_2SB799\_PS01.lib MDC\_2SB799\_PS.pdf (this file)

Verified Simulator Version Note

PSpice version 16.6

#### References

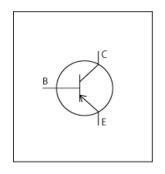
The information which was used for modeling is as follow:

November 1994 2SB799 Renesas Electronics Corporation IcVbe[Temp],IcVce[ib],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	-50	V
Base current (DC)	0	to	-0.070	А
Temperature	-55	to	150	deg C

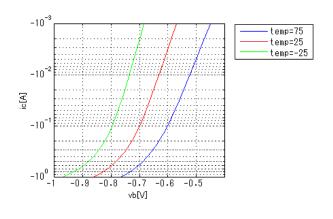




#### Simulation results are following. Explanatory notes — : simulated

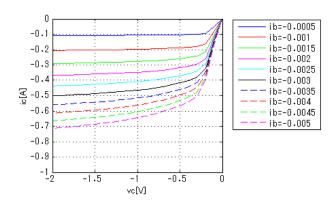
### IcVbe[Temp]

Vce = -6V



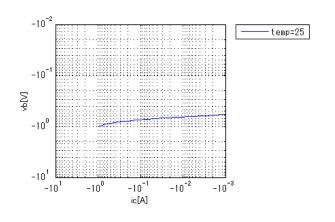
IcVce[ib]

Temp. = 25deg C



Vbe(sat)lc[Temp]

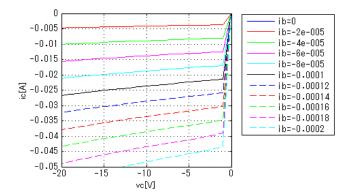
IC/IB = 10



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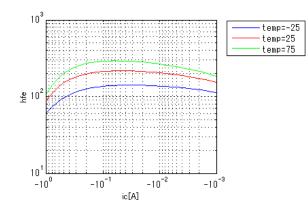
## lcVce[ib]

Temp. = 25deg C



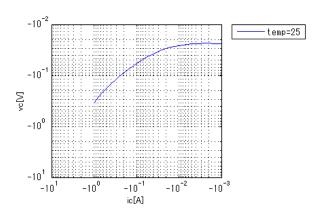
## hFElc[Temp]

Vce = -1V



# Vce(sat)lc[Temp]

IC/IB = 10

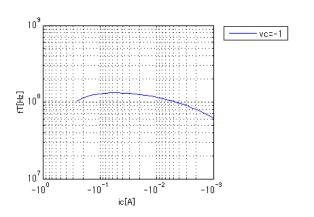


March 5, 2019 Rev. 1.0



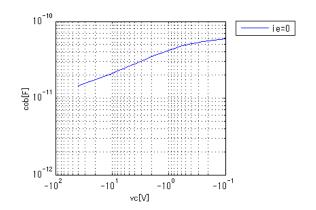
# Simulation results are following. Explanatory notes -: simulated

## fTIc[Vce]





Freq. = 1MHz





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