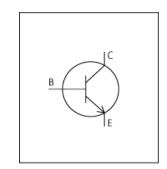


PSpice Model NPN RENESAS 2SC3518



Model Information

Model Mextram model
Call Name MDC_2SC3518_PS

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

Model Report MDC_2SC3518_PS.pdf (this file)

Verified Simulator Version

Note

PSpice version 16.6

MDC_2SC3518_PS01.lib

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/VersionProduct nameJuly,20062SC3518

● Company name Renesas Electronics Corporation

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

[Vce]

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	1	Α
Temperature	-55	to	150	deg C

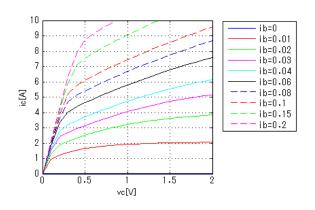


Simulation results are following.

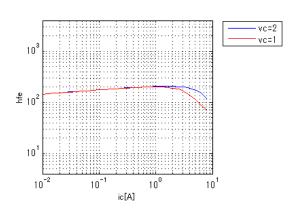
Explanatory notes — : simulated

IcVce[ib]

Temp. = 25deg C

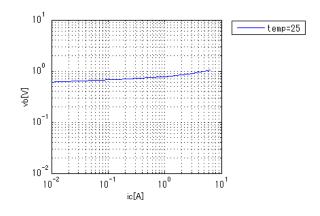


hFEIc[Vce]



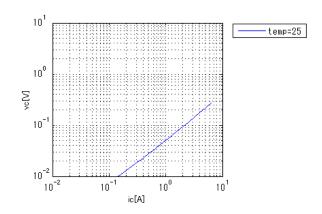
Vbe(sat)lc[Temp]

IC/IB = 10

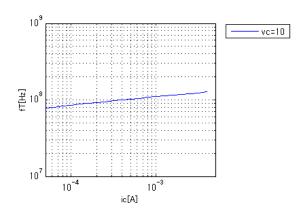


Vce(sat)Ic[Temp]

IC/IB = 10



fTlc[Vce]





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