

MDC_2SD1584_PS

PSpice Model NPN RENESAS 2SD1584

Model Information

ModelMextram modelCall NameMDC_2SD1584_PSPin Assign1:C 2:B 3:EFile ListModel Library
Model Report

MDC_2SD1584_PS01.lib MDC_2SD1584_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/Version • Product name • Company name

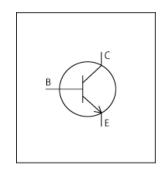
Characteristics

July 2006 2SD1584 Renesas Electronics Corporation IcVce[ib],IcVbe[Temp],hFEIc[Temp],Vbe(sat)Ic[Temp],Vce(s at)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	0.5	А
Temperature	-55	to	150	deg C

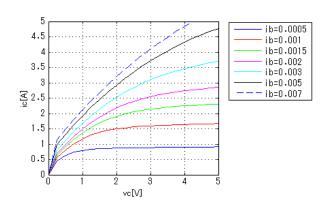




Simulation results are following. Explanatory notes — : simulated

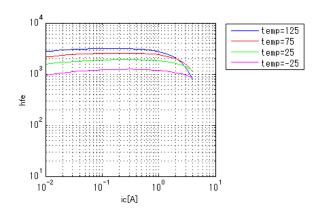
IcVce[ib]

Temp. = 25deg C



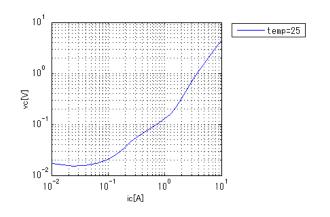
hFElc[Temp]

Vce = 5V



Vce(sat)lc[Temp]

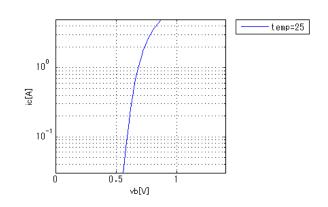
IC/IB = 100



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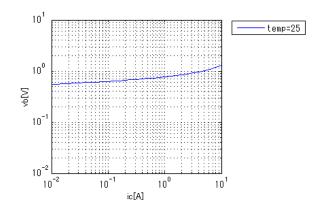
IcVbe[Temp]

Vce = 5V

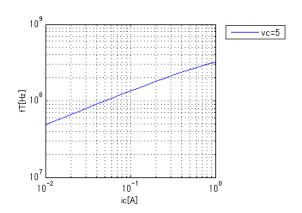


Vbe(sat)lc[Temp]

IC/IB = 100



fTIc[Vce]





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