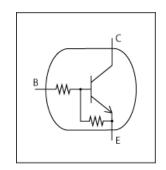


PSpice Model BRT (Bias Resistor Transistor) Isahaya Electronics Corporation RT1N141M



Model Information

Model A macro model based on Gummel-Poon model

Call Name MDC_RT1N141M_PS

Pin Assign 1:E 2:C 3:B

File List Model Library MDC_RT1N141M_PS01.lib

Model Report MDC_RT1N141M_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 2016/11Product name RT1N141M

Company name
Isahaya Electronics Corporation

● Characteristics hFEIc[Temp],IcVi[OFF],IcVi[ON],Vce(sat)Ic[Temp]

Simulation Range

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

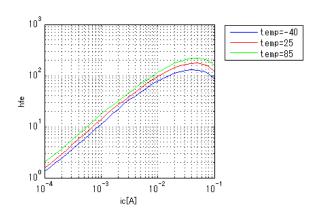
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	50	V
Base current (DC)	0	to	5	А
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

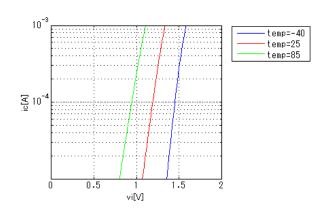
hFEIc[Temp]

Vce = 5V



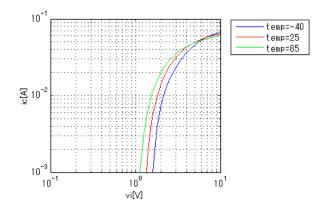
IcVi[OFF]

Vce = 5V



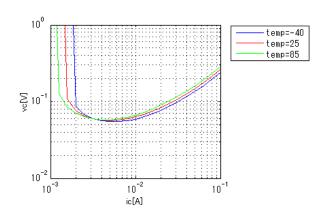
IcVi[ON]

Vce = 0.2V



Vce(sat)lc[Temp]

IC/IB = 20





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