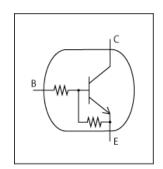


# PSpice Model BRT (Bias Resistor Transistor) TOSHIBA RN1908



### **Model Information**

Model A macro model based on Mextram model

Call Name MDC\_RN1908\_PS

Pin Assign 1:C 2:B 3:E

File List Model Library MDC\_RN1908\_PS02.lib

Model Report MDC\_RN1908\_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 2014-03-01Product name RN1908

Company name Toshiba Corporation

● Characteristics IcVi[OFF],IcVi[ON],hFEIc[Temp]

#### Simulation Range

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

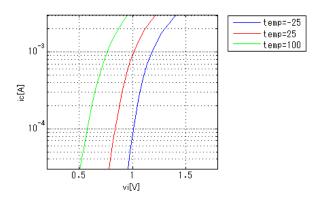
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	50	V
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

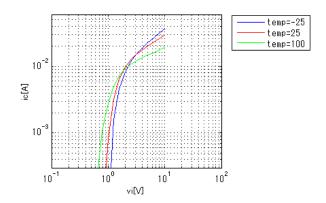
## IcVi[OFF]

Vce = 5V



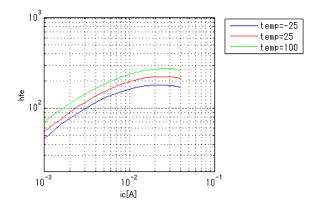
## IcVi[ON]

Vce = 0.2V



#### hFElc[Temp]

Vce = 5V





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