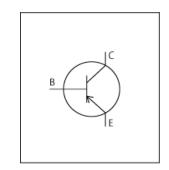


# PSpice Model PNP TOSHIBA 2SA1163



## **Model Information**

Model Mextram model
Call Name MDC\_2SA1163\_PS

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

Model Report MDC\_2SA1163\_PS.pdf (this file)

**Verified Simulator Version** 

Note

PSpice version 16.6

MDC\_2SA1163\_PS01.lib

#### References

The information which was used for modeling is as follow:

[Data Sheet]

Date/VersionProduct nameUnknown2SA1163

Company name Toshiba Corporation

● Characteristics IcVce[ib],IcVbe[Temp],hFEIc[Temp],Vce(sat)Ic[Temp],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	-120	V
Base current (DC)	0	to	-20m	А
Temperature	-55	to	125	deg C

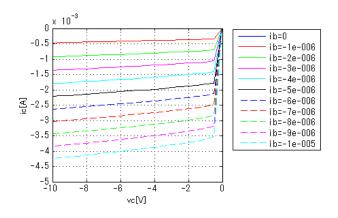


Simulation results are following.

Explanatory notes — : simulated

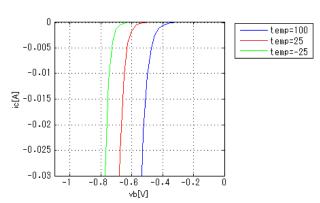
#### IcVce[ib]

Temp. = 25deg C



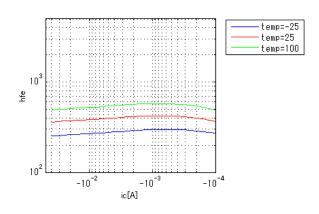
#### IcVbe[Temp]

Vce = -6V



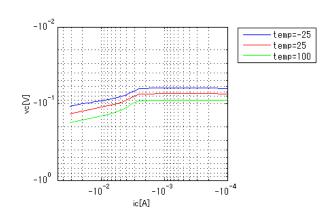
#### hFEIc[Temp]

Vce = -6V



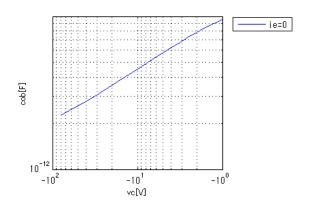
### Vce(sat)lc[Temp]

IC/IB = 10



#### Cob

Freq. = 1MHz





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