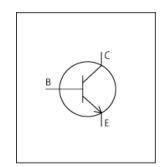


# PSpice Model NPN TOSHIBA 2SC5108



## **Model Information**

Model Mextram model
Call Name MDC\_2SC5108\_PS

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

Model Library MDC\_2SC5108\_PS01.lib
Model Report MDC\_2SC5108\_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/VersionProduct name2014-03-012SC5108

●Company name Toshiba Corporation

●Characteristics hFEIc[Temp],Cob,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	10	V
Base current (DC)	0	to	15m	А
Temperature	-55	to	125	deg C

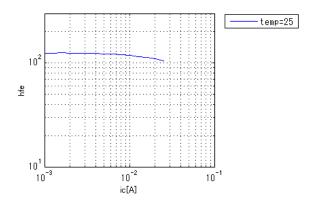


Simulation results are following.

Explanatory notes — : simulated

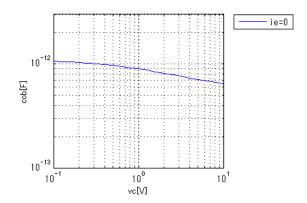
## hFElc[Temp]

Vce = 5V

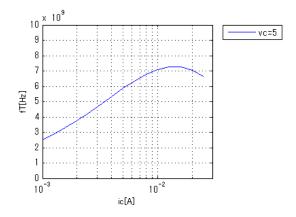


#### Cob

Freq. = 1MHz



## fTlc[Vce]





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