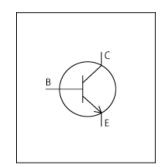


# LTspice Model NPN TOSHIBA 2SC6124



# **Model Information**

Model Gummel-Poon model
Call Name MDC\_2SC6124\_LT

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

Model Library MDC\_2SC6124\_LT01.lib
Model Report MDC\_2SC6124\_LT.pdf (this file)

**Verified Simulator Version** 

Note

LTspice version XVII

#### References

The information which was used for modeling is as follow:

[Data Sheet]

Date/VersionProduct nameUnknown2SC6124

● Company name Toshiba Corporation

● Characteristics IcVce[ib],hFEIc[Temp],Vce(sat)Ic[Temp],Vbe(sat)Ic[Temp],Ic

Vbe[Temp],fTlc[Vce],Cob

#### Simulation Range

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

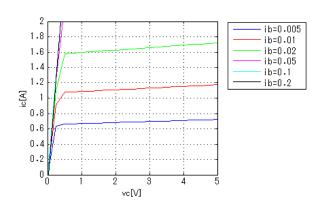
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	80	V
Base current (DC)	0	to	0.5	А
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

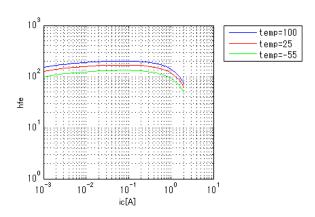
### IcVce[ib]

Temp. = 25deg C



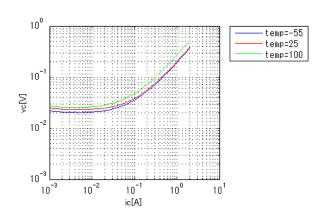
#### hFEIc[Temp]

Vce = 2V



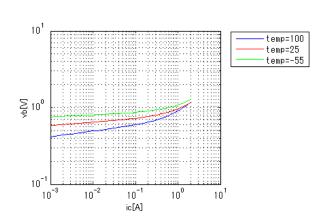
#### Vce(sat)lc[Temp]

IC/IB = 10



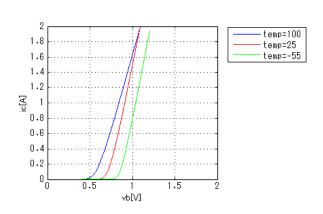
## Vbe(sat)lc[Temp]

IC/IB = 10

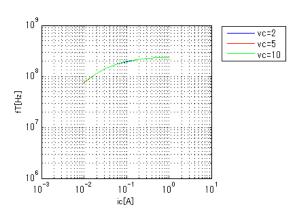


#### IcVbe[Temp]

Vce = 2V



### fTIc[Vce]

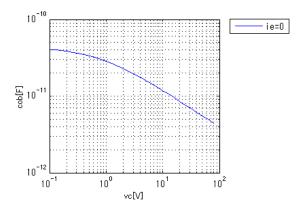




Simulation results are following. Explanatory notes — : simulated

#### Cob

Freq. = 1MHz





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MoDeCH Inc.

**Head Office** 

Location: Mitsuiseimei Hachioji Bldg., 5-15 Yokoyama-cho, Hachioji-Shi, Tokyo 192-0081, Japan

Tel:+81-42-656-3360

E-Mail:model-on-support@modech.co.jp

URL:http://www.modech.com/en/

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