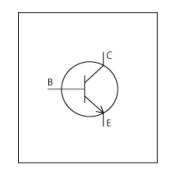


LTspice Model NPN Nexperia BC847



Model Information

Model Mextram model
Call Name MDC_BC847_LT
Pin Assign 1:C 2:B 3:E
File List Model Library

Model Library MDC_BC847_LT01.lib
Model Report MDC_BC847_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/VersionRev. 9 - 23 September 2014

Product nameBC847Company nameNexperia B.V.

● Characteristics hFElc[Temp],lcVbe[Temp],Vce(sat)lc[Temp],Vbe(sat)lc[Temp]

p]

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	45	V
Base current (DC)	0	to	10	Α
Temperature	-65	to	150	deg C

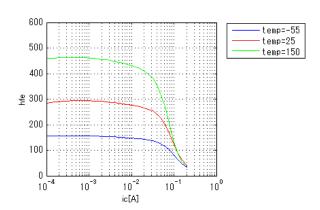


Simulation results are following.

Explanatory notes — : simulated

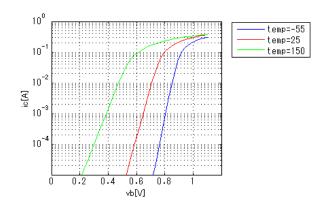
hFEIc[Temp]

Vce = 5V



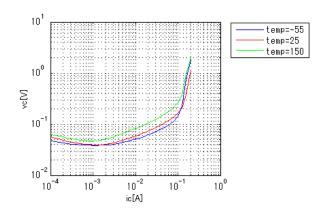
IcVbe[Temp]

Vce = 5V



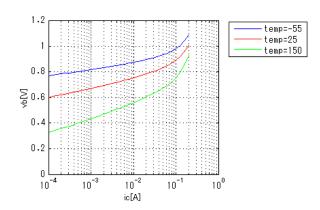
Vce(sat)lc[Temp]

IC/IB = 20



Vbe(sat)lc[Temp]

IC/IB = 10





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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/