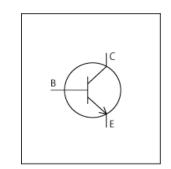


PSpice Model NPN Nexperia BC847



Model Information

Model Mextram model
Call Name MDC_BC847_PS
Pin Assign 1:C 2:B 3:E

Model Library MDC_BC847_PS01.lib

Model Report MDC_BC847_PS.pdf (this file)

Verified Simulator Version

Note

File List

PSpice version 16.6

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/VersionRev. 9 - 23 September 2014

Product nameCompany nameBC847Nexperia 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

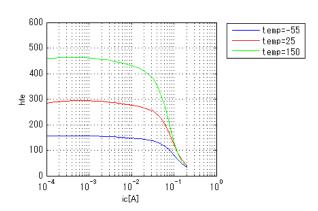


Simulation results are following.

Explanatory notes — : simulated

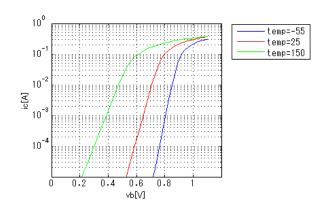
hFEIc[Temp]

Vce = 5V



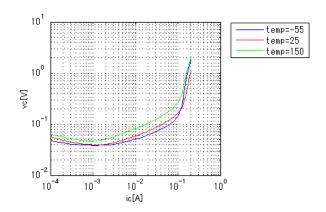
IcVbe[Temp]

Vce = 5V



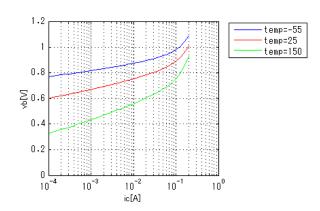
Vce(sat)lc[Temp]

IC/IB = 20



Vbe(sat)lc[Temp]

IC/IB = 10





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