

PSpice Model

PNP

Nexperia

BC856



Model Information

Model Mextram model
Call Name MDC_BC856_PS
Pin Assign 1:C 2:B 3:E
File List Model Library MDC_BC856_PS01.lib
 Model Report MDC_BC856_PS.pdf (this file)

Verified Simulator Version PSpice version 16.6
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version 2004 Jan 16
- Product name BC856
- Company name Nexperia B.V.
- Characteristics $hFE(I_C[Temp], I_C V_{BE}[Temp], V_{CE}(sat) I_C[Temp], V_{BE}(sat) I_C[Temp])$

Simulation Range

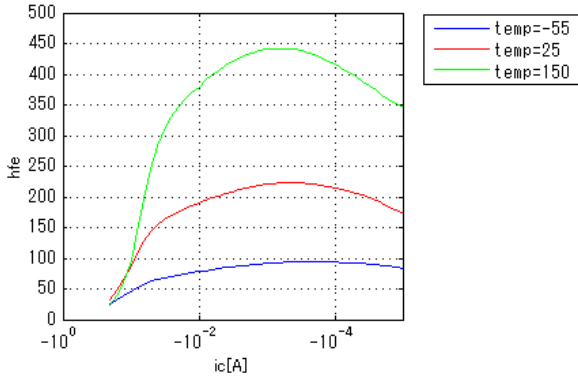
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-65	V
Base current (DC)	0	to	-5	A
Temperature	-65	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

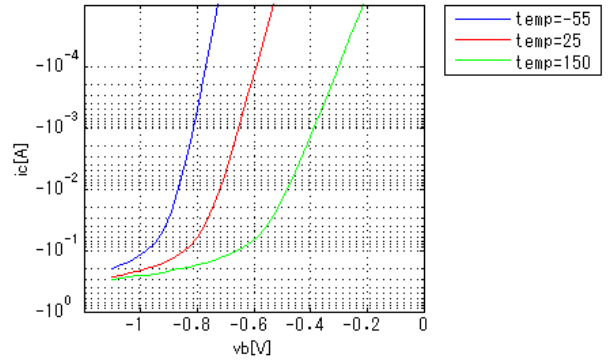
hFE_{ic}[Temp]

V_{ce} = -5V



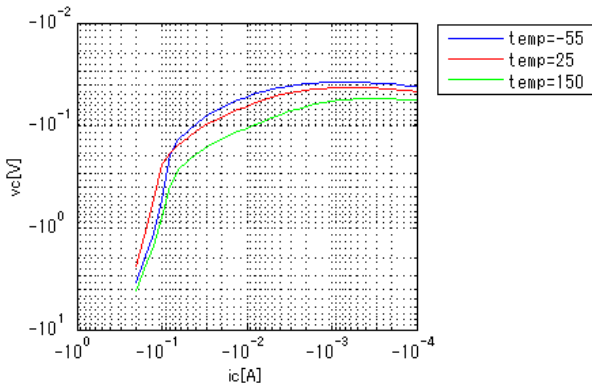
I_cV_{be}[Temp]

V_{ce} = -5V



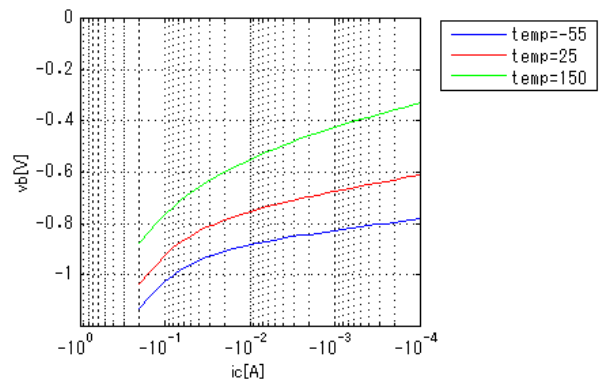
V_{ce}(sat)I_c[Temp]

I_C/I_B = 20



V_{be}(sat)I_c[Temp]

I_C/I_B = 20



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