

# LTspice Model

## PNP

### Nexperia

### BC807-16



### Model Information

**Model** Mextram model  
**Call Name** MDC\_BC807-16\_LT  
**Pin Assign** 1:C 2:B 3:E  
**File List** Model Library MDC\_BC807-16\_LT01.lib  
 Model Report MDC\_BC807-16\_LT.pdf (this file)

**Verified Simulator Version** LTspice version XVII  
**Note**

### References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version Rev. 06 - 17 November 2009
- Product name BC807-16
- Company name Nexperia B.V.
- Characteristics  $I_{cVce[ib]}$ ,  $hFEI_{c[Temp]}$ ,  $V_{be(sat)I_{c[Temp]}}$ ,  $V_{ce(sat)I_{c[Temp]}}$

### Simulation Range

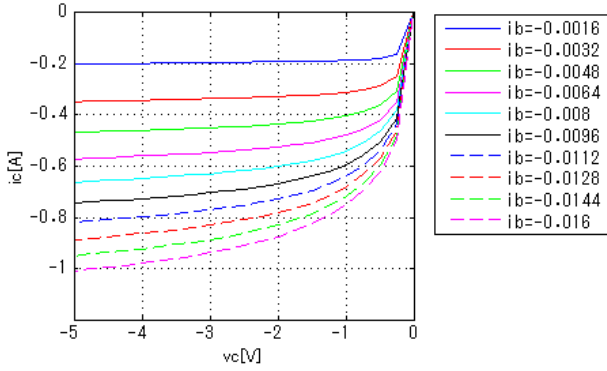
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-45	V
Base current (DC)	0	to	-50	A
Temperature	-65	to	150	deg C

Simulation results are following.  
 Explanatory notes — : simulated

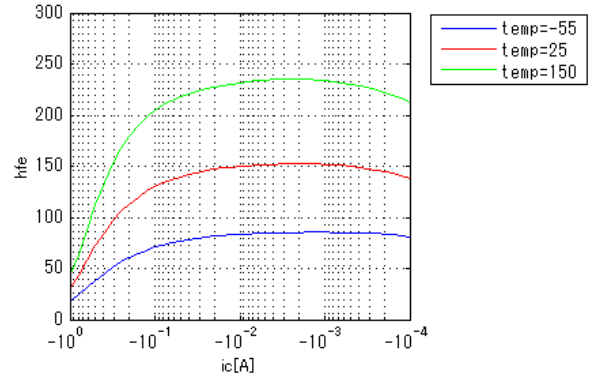
**IcVce[ib]**

Temp. = 25deg C



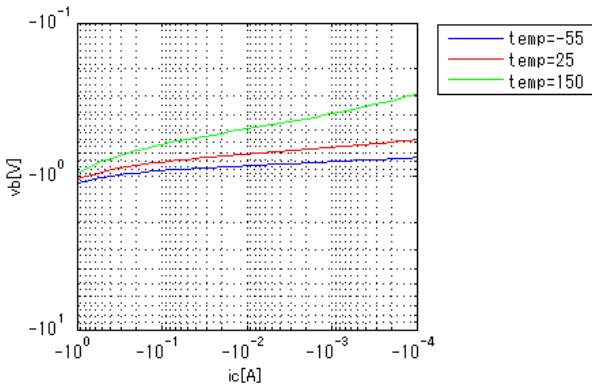
**hFEIc[Temp]**

Vce = -1V



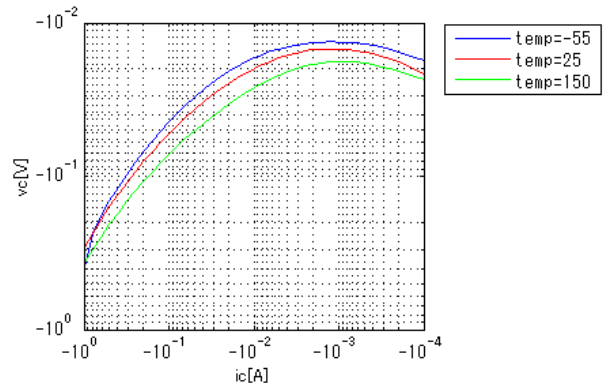
**Vbe(sat)Ic[Temp]**

IC/IB = 10



**Vce(sat)Ic[Temp]**

IC/IB = 10



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