

# PSpice Model

## PNP

### Nexperia

### 2PB709BRL



#### Model Information

**Model** Mextram model  
**Call Name** MDC\_2PB709BRL\_PS  
**Pin Assign** 1:C 2:B 3:E  
**File List** Model Library MDC\_2PB709BRL\_PS01.lib  
 Model Report MDC\_2PB709BRL\_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 Rev. 1 - 28 June 2010
- Product name 2PB709BRL
- Company name Nexperia B.V.
- Characteristics  $I_c V_{ce}[ib], h_{FE} I_c [Temp], V_{ce}(sat) I_c [Temp]$

#### Simulation Range

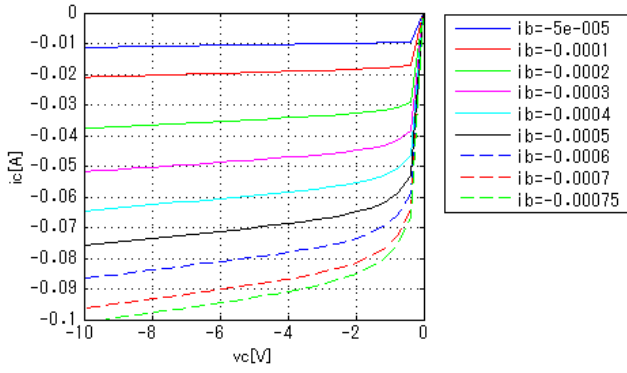
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-50	V
Base current (DC)	0	to	-20	A
Temperature	-65	to	150	deg C

Simulation results are following.  
 Explanatory notes — : simulated

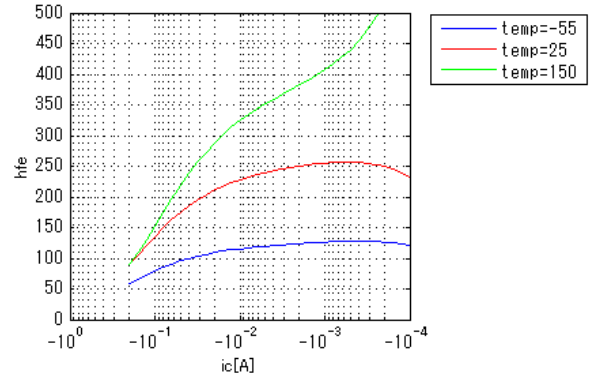
**IcVce[ib]**

Temp. = 25deg C



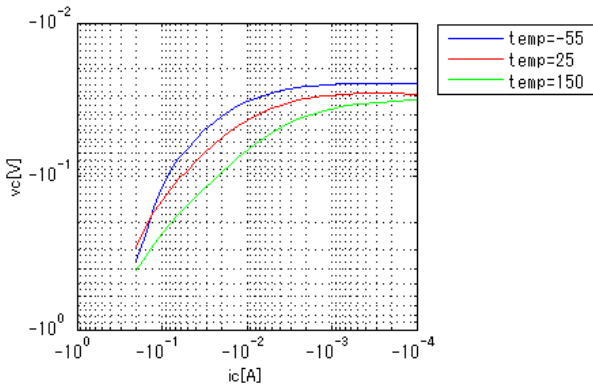
**hFEIc[Temp]**

Vce = -10V



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

IC/IB = 10



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