

## LTspice Model

### NPN

### STM

### 2N2222AHR



### Model Information

**Model** Mextram model  
**Call Name** MDC\_2N2222AHR\_LT  
**Pin Assign** 1:C 2:B 3:E  
**File List** Model Library MDC\_2N2222AHR\_LT01.lib  
 Model Report MDC\_2N2222AHR\_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 May 2015 Rev 19
- Product name 2N2222AHR
- Company name STMicroelectronics NV
- Characteristics hFEIc[Temp], Vce(sat)Ic[Temp], Vbe(sat)Ic[Temp]

### Simulation Range

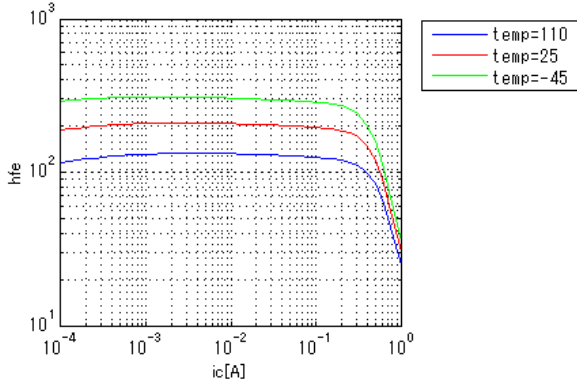
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	40	V
Base current (DC)	0	to	0.08	A
Temperature	-65	to	200	deg C

Simulation results are following.  
 Explanatory notes — : simulated

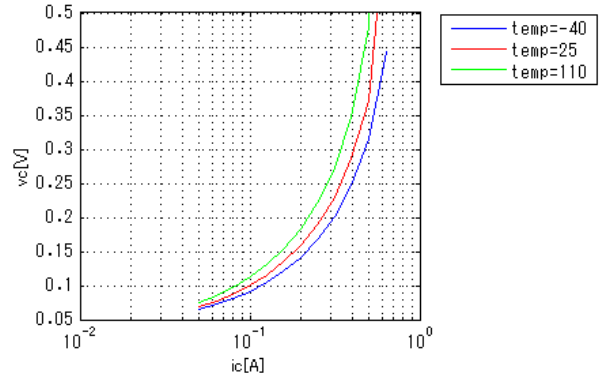
**hFEIc[Temp]**

Vce = 10V



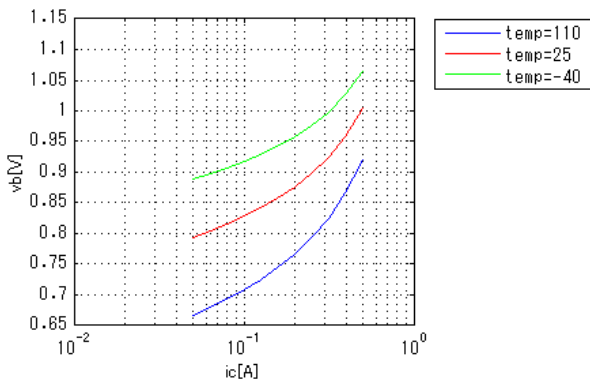
**Vce(sat)Ic[Temp]**

IC/IB = 10



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

IC/IB = 10



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