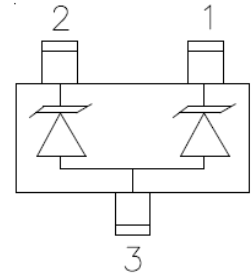


# LTspice Model

## ESD Protection Diode

### SEMTECH

### RClamp0582BQ



### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_RClamp0582BQ\_LT  
**Pin Assign** 1:C 2:C 3:A  
**File List** Model Library MDC\_RClamp0582BQ\_LT01.lib  
 Model Report MDC\_RClamp0582BQ\_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 Revision 7/28/11
- Product name RClamp0582BQ
- Company name SEMTECH ELECTRONICS LTD.
- Characteristics IrVr[Temp],IfVf[Temp],IrVr(Breakdown)

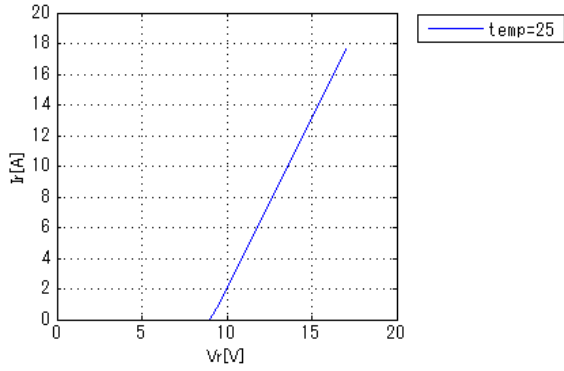
### Simulation Range

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

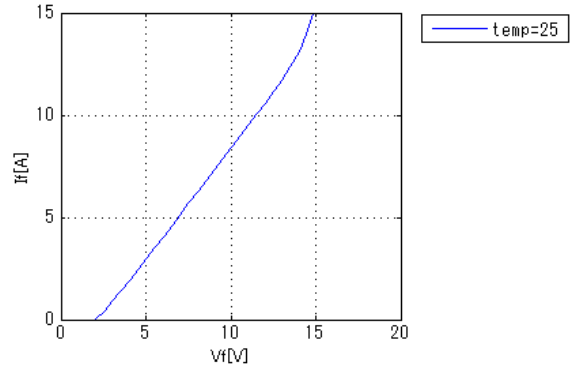
Item	Range			Unit
	Min.		Max.	
Forward Voltage	0	to	150	V
Temperature	-55	to	150	deg C

Simulation results are following.  
Explanatory notes — : simulated

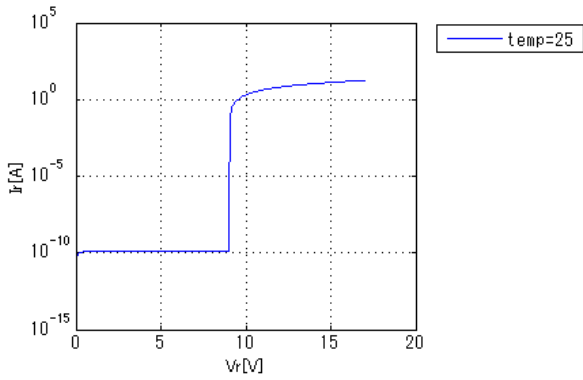
**IrVr[Temp]**



**IfVf[Temp]**



**IrVr(Breakdown)**



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