

# LTspice Model Buck Converter ROHM Co., Ltd. BD90640EFJ-C

## Model Information

**Model** An original macro model  
**Call Name** MDC\_BD90640EFJ-C\_LT  
**Pin Assign** 1:RT 2:SW 3:EN/SYNC 4:GND 5:VC 6:VIN 7:PVIN 8:FB  
**File List** Model Library MDC\_BD90640EFJ-C\_LT01.lib  
 Model Report MDC\_BD90640EFJ-C\_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 Unknown
- Product name BD90640EFJ-C
- Company name ROHM Co., Ltd.
- Characteristics Transient,Line regulation,Load regulation

## Simulation Condition

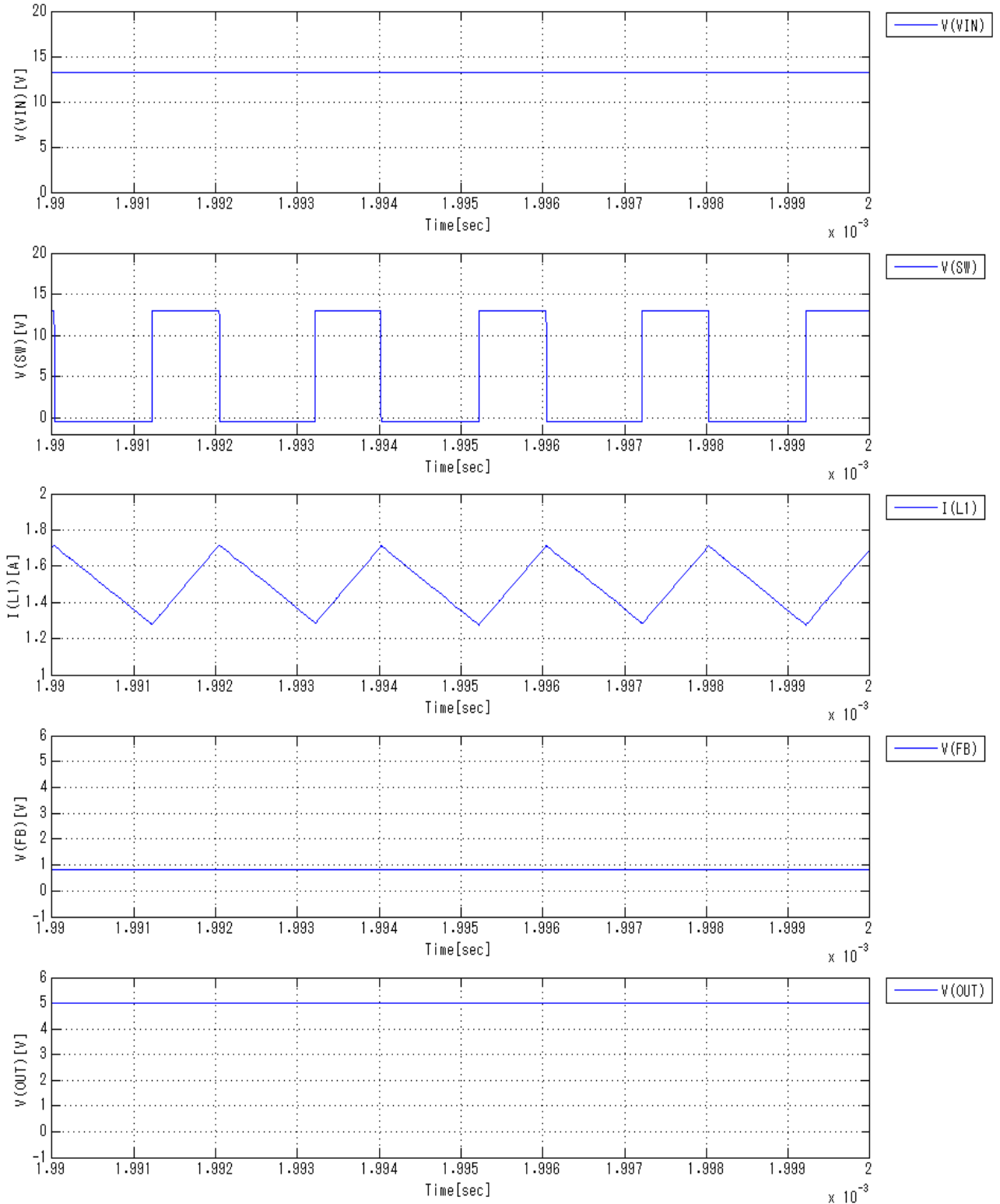
This table shows the value of evaluated simulation condition that was not occurs any convergence problems in this area.

Item	Condition	Unit
Temperature	25	deg C

Simulation results are following.  
 Explanatory notes — : simulated

**Transient**

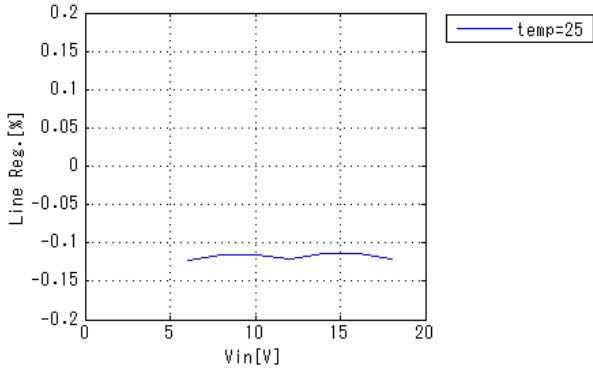
Temp. = 25deg C



Simulation results are following.  
 Explanatory notes — : simulated

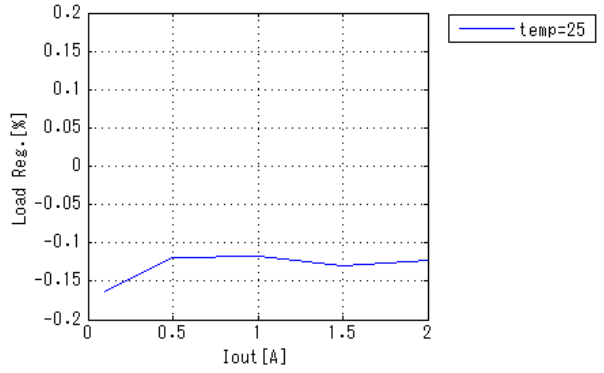
**Line regulation**

I<sub>out</sub> = 1.5A



**Load regulation**

V<sub>in</sub> = 13.2V



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