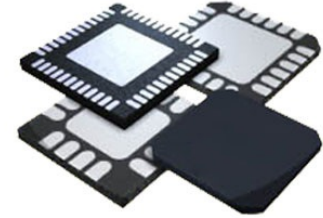


## Gate Power Driver IC



Images are for reference only

[Inquiry](#)

**Manufacturer:** [ON Semiconductor, LLC](#)

**Package/Case:** QFN

**Product Type:** Drivers

**Lifecycle:** Active

## General Description

The NCP302150 integrates a MOSFET driver, high-side MOSFET and low-side MOSFET into a single package. The driver and MOSFETs have been optimized for high-current DC/DC buck power conversion applications. The NCP302150 integrated solution greatly reduces package parasitics and board space compared to a discrete component solution.

## Key Features

- Average Current up to 50A
- Capable of Switching at Frequencies up to 2 MHz
- Compatible with 3.3 V or 5 V PWM Input
- Responds Properly to 3-level PWM Inputs
- Supports Intel® Power State 4
- Option for Zero Cross Detection with 3-level PWM
- Thermal Warning Output and Thermal Shutdown

## Application

- Desktop and Notebook Microprocessors
- Servers and Workstations, V-Core and Non-V-Core DC/DC Converters
- Small Form-Factor Voltage Regulator Modules
- High-Current DC/DC Point-of-Load Converters

## Recommended For You

### NCP1380BDR2G

ON Semiconductor, LLC  
SOP8

### NCP114AMX180TCG

ON Semiconductor, LLC  
UDFN-4

### NCP1608BDR2G

ON Semiconductor, LLC  
SOP-8

**NCP1654BD133R2G**

ON Semiconductor, LLC  
SOP8

**NCP1200P100G**

ON Semiconductor, LLC  
DIP-8

**NCP1251ASN65T1G**

ON Semiconductor, LLC  
SOT23-6

**NCP1271D65R2G**

ON Semiconductor, LLC  
SOP-7

**NCV1117DT33T5G**

ON Semiconductor, LLC  
TO-252

**NCV4274AST33T3G**

ON Semiconductor, LLC  
SOT223

**NCP303LSN09T1G**

ON Semiconductor, LLC  
TSOP-5

**NCP1117ST50T3G**

ON Semiconductor, LLC  
SOT223

**NCP3063BDR2G**

ON Semiconductor, LLC  
SOP8

**NCV8405ASTT1G**

ON Semiconductor, LLC  
SOT-223

**NCP1117ST33T3G**

ON Semiconductor, LLC  
SOT223

**NCP303LSN45T1G**

ON Semiconductor, LLC  
SOT23-5