

Product Overview

NCP302040: Integrated Driver and MOSFETs, 40 A

For complete documentation, see the data sheet.

The NCP302040 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 NCP302040 integrated solution greatly reduces package parasitics and board space compared to a discrete component solution.

Features

- Average Current up to 40A
- 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

Applications

- Desktop and Notebook Microprocessors

End Products

- Power Supply and Notebooks

Part Electrical Specifications

| Product | Compliance | Status | V _{CIN} (V) Typ | V _{IN} (V) Typ | PWM Level | I _O (A) Max | f _{max} (MHz) Max | Package Type |
|----------------|------------------------|--------|--------------------------|-------------------------|---------------------|------------------------|----------------------------|--------------|
| NCP302040MNTWG | Pb-free Halide free | Active | 5 | 12 | 3.3V, 5V, Tri-state | 70 | 2 | PQFN-31 |

For more information please contact your local sales support at www.onsemi.com.

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