

Product Overview

NCP81074: Small, High Speed Low Side MOSFET Driver with 10A sink/source capability

For complete documentation, see the data sheet.

The NCP81074 is a single channel, low side MOSFET driver capable of sinking and sourcing up to 10A. This driver can deliver 7A peak current at the Miller plateau region to overcome the Miller effect with MOSFETs during switching. Split output configurations allow the ability to adjust the on and off slew rates. The parts are offered in a SOIC8 and 2mm by 2mm DFN package.

Features

- High Current Drive Capability
- Dual Input Design

Applications

- Isolated bricks
- Telecom and Data Center Equipment
- Industrial motors

Benefits

- Reduce switching losses
- Allows differential input signal for more control

End Products

- Isolated power in server, telecom, and data center equipment
- Motor control
- Secondary synchronous rectifier

Part Electrical Specifications

| Product | Pricing (\$/Unit) | Compliance | Status | Power Switch | Number of Outputs | Topology | Isolation Type | V _{in} Max (V) | V _{CC} Max (V) | Rise Time (ns) | Fall Time (ns) | Drive Source Current Typ (A) | Drive Sink Current Typ (A) | Turn On Prop. Delay Typ (ns) | Turn Off Prop. Delay Typ (ns) | Delay Matching | Package Type |
|----------------|-------------------|--|--------|--------------|-------------------|----------|----------------|-------------------------|-------------------------|----------------|----------------|------------------------------|----------------------------|------------------------------|-------------------------------|----------------|--------------|
| NCP81074ADR2G | 0.6177 | Pb-free Halide free non AEC-Q and PPAP | Active | MOSFET | 1 | Single | Non-Isolated | 20 | 20 | 7 | 7 | 10 | 10 | 15 | 15 | - | SOIC-8 |
| NCP81074AMNTBG | 0.4967 | Pb-free Halide free non AEC-Q and PPAP | Active | MOSFET | 1 | Single | Non-Isolated | 20 | 20 | 7 | 7 | 10 | 10 | 15 | 15 | - | DFN-8 |
| NCP81074BDR2G | 0.6177 | Pb-free Halide free non AEC-Q and PPAP | Active | MOSFET | 1 | Single | Non-Isolated | 20 | 20 | 7 | 7 | 10 | 10 | 15 | 15 | - | SOIC-8 |
| NCP81074BMNTBG | 0.4967 | Pb-free Halide free non AEC-Q and PPAP | Active | MOSFET | 1 | Single | Non-Isolated | 20 | 20 | 7 | 7 | 10 | 10 | 15 | 15 | - | DFN-8 |

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

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