

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	MOS FET	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	MOS FET	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	MOS FET	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	MOS FET	1	Single	Non-Isolated	20	20	7	7	10	10	15	15	-	DFN-8

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