

Product Overview

NCP81145: VR12.5 Buck MOSFET Driver

For complete documentation, see the data sheet.

The NCP81145 is a high performance dual MOSFET gate driver optimized to drive the gates of both high-side and low-side power MOSFETs in a synchronous buck converter. It can drive up to 3nF load with a 25ns propagation delay and 20ns transition time. Adaptive anti-cross-conduction and power saving operation circuit can provide a low switching loss and high efficiency solution for notebook systems.

The UVLO function guarantees the outputs are low when the supply voltage is low.

Features

- Faster rise and fall times
- Adaptive anti-cross-conduction circuit
- Zero cross detection function
- Output disable control turns off both MOSFETs
- Undervoltage lockout
- Power saving operation under light load conditions

Applications

- Industrial based power applications

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Power Switch	Number of Outputs	Topology	Isolation Type	V _{in} Max (V)	V _{cc} Max (V)	Drive Source /Sink Typ (mA)	Rise Time (ns)	Fall Time (ns)	t _o Max (ns)	Package Type
NCP81145MNTBG	0.2053	Pb-free Halide free non AEC-Q and PPAP	Active	MOSFET	2	Half-Bridge	Junction Isolation	35	6.5	-	16	11	25	DFN-8

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

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