

Driver 2A 4-OUT High and Low Side Non-Inv 16-Pin QFN EP T/R

Manufacturers	Microchip Technology, Inc
Package/Case	QFN-16
Product Type	Power Management ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for MD1810K6-G or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

MD1810 is a high-speed quad MOSFET driver. It is designed to drive high voltage P- and N-channel MOSFETs for medical ultrasound imaging applications. The MD1810 can also be used for ultrasound metal flaw detection, Non-Destructive Testing (NDT), piezoelectric transducer drive, clock drive, and PIN diode drive. The MD1810 has four inputs which individually control four outputs. It also has an output enable (OE) pin. When OE is low, all of the outputs will be in a high impedance state regardless of their logic input control. When OE is high, the MD1810 sets the threshold logic transition to $(VOE+VGND)/2$. This ensures the transition to always be at half the amplitude of the logic input signal. This allows the device to have inherent propagation delay matching regardless of the logic input amplitude. The output stage of the MD1810 has separate power connections enabling the output signal L and H levels to be chosen independently from the VDD and VSS supply voltages. As an example, the input logic levels may be 0 and 1.8V, the control logic may be powered by +5.0 and -5.0V, and the output L and H levels may be varied anywhere over the range of -5.0 to +5.0V. The output stage is capable of peak currents of up to $\pm 2.0A$, depending on the supply voltages used and load capacitance present.

Features

6.0ns rise and fall time with 1000pF load

2.0A peak output source/sink current

1.8 to 5.0V input CMOS compatible

5.0 to 12V total supply voltage

Smart logic threshold

Low jitter design

Four matched channels

Outputs can swing below ground

Output is high impedance when disabled

Low inductance package

High-performance thermally-enhanced QFN

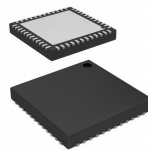


Related Products



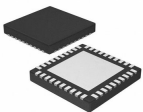
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LQFP-48



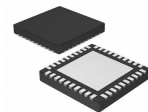
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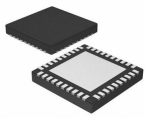
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VQFN-40



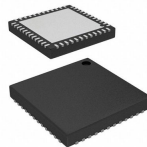
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