
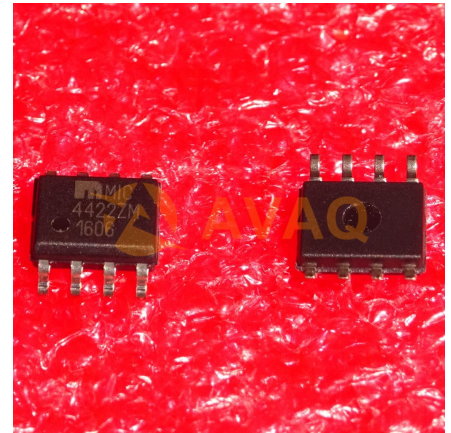


Driver 9A 1-OUT Low Side Non-Inv 8-Pin SOIC N Tube

Manufacturer:	<u>Microchip Technology, Inc</u>
Package/Case:	SOP8
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

MIC4421A and MIC4422A MOSFET drivers are rugged, efficient, and easy to use. The MIC4421A is an inverting driver, while the MIC4422A is a non-inverting driver. Both versions are capable of 9A (peak) output and can drive the largest MOSFETs with an improved safe operating margin. The MIC4421A/4422A accepts any logic input from 2.4V to VS without external speed-up capacitors or resistor networks. Proprietary circuits allow the input to swing negative by as much as 5V without damaging the part. Additional circuits protect against damage from electrostatic discharge. MIC4421A/4422A drivers can replace three or more discrete components, reducing PCB area requirements, simplifying product design, and reducing assembly cost. Modern Bipolar/CMOS/DMOS construction guarantees freedom from latch-up. The rail-to-rail swing capability of CMOS/DMOS helps ensure adequate gate voltage to the MOSFET during power up/down sequencing. Since these devices are fabricated on a self-aligned process, they have very low crossover current, run cool, use little power, and are easy to drive.

Key Features

High peak-output current: 9A peak (typ.)

Wide operating range: 4.5V to 18V (typ.)

Minimum pulse width: 50ns

Latch-up proof: fully isolated process is inherently immune to any latch-up.

Input will withstand negative swing of up to 5V

High capacitive load drive: 47,000pF

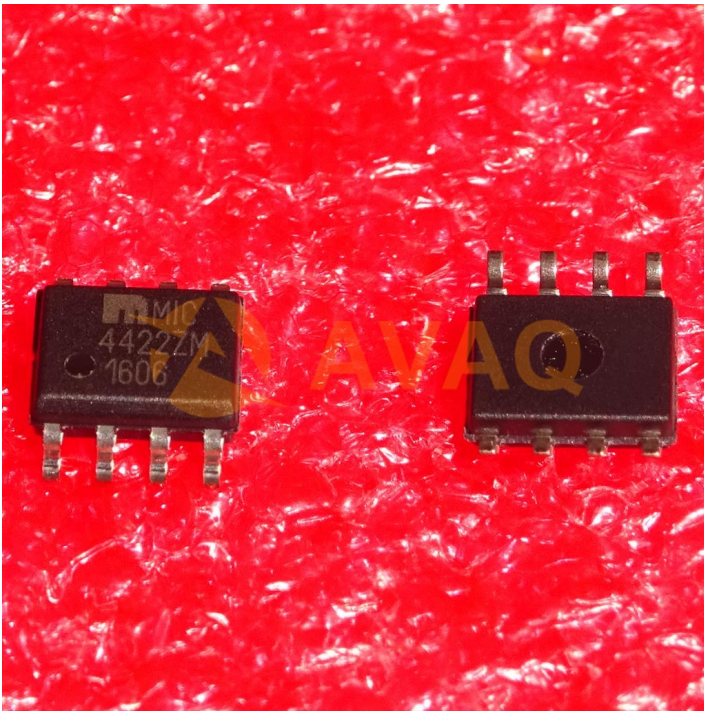
Low delay time: 15ns (typ.)

Logic high input for any voltage from 2.4V to VS

Low equivalent input capacitance (typ.): 7pF

Low supply current: 500μA (typ.)

Output voltage swing to within 25mV of ground or VS



Recommended For You

MIC4451YN

Microchip Technology, Inc

DIP8

MIC4427YN

Microchip Technology, Inc

DIP8

MIC4427YM

Microchip Technology, Inc

SOP-8

MIC2954-02WS

Microchip Technology, Inc

SOT223

MIC2951-02YM

Microchip Technology, Inc

SOP-8

MIC4452ZT

Microchip Technology, Inc

TO-220-5

MIC5013YN

Microchip Technology, Inc

PDIP-8

MIC2582-MYM

Microchip Technology, Inc

SOP-8

MIC4224YM

Microchip Technology, Inc

SOP8

MIC4123YME

Microchip Technology, Inc

SOP-8

MIC2951-02YM-TR

Microchip Technology, Inc

SOIC-8

MIC49150WR

Microchip Technology, Inc

SPAK-5

MIC2506YM

Microchip Technology, Inc

SOP-8

MIC49300WR

Microchip Technology, Inc

S-PAK-5

MIC94082YFT-TR

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