

Dual 2A High-Speed, Low-Side Gate Driver; Package: MLP; No of Pins: 8; Container: Tape & Reel, MOSFET & Power Driver ICs Dual 2A High-Speed Low-Side Gate

Manufacturers	<a href="#">ON Semiconductor, LLC</a>
Package/Case	MLP-8
Product Type	Power Management ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for FAN3227TMPX or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.



## General Description

The FAN3226-29 family of dual 2A gate drivers is designed to drive N-channel enhancement-mode MOSFETs in low-side switching applications by providing high peak current pulses during the short switching intervals. The driver is available with either TTL or CMOS input thresholds. Internal circuitry provides an under-voltage lockout function by holding the output low until the supply voltage is within the operating range. In addition, the drivers feature matched internal propagation delays between A and B channels for applications requiring dual gate drives with critical timing, such as synchronous rectifiers. This enables connecting two drivers in parallel to effectively double the current capability driving a single MOSFET. The FAN322X drivers incorporate MillerDrive™ architecture for the final output stage. This bipolar-MOSFET combination provides high current during the Miller plateau stage of the MOSFET turn-on / turn-off process to minimize switching loss, while providing rail-to-rail voltage swing and reverse current capability. The FAN3226 offers two inverting drivers and the FAN3227 offers two non-inverting drivers. Each device has dual independent enable pins that default to ON if not connected. In the FAN3228 and FAN3229, each channel has dual inputs of opposite polarity, which allows configuration as non-inverting or inverting with an optional enable function using the second input. If one or both inputs are left unconnected, internal resistors bias the inputs such that the output is pulled low to hold the power MOSFET off.

## Features

Industry-Standard Pinouts

4.5 to 18V Operating Range

3A Peak Sink/Source at >

2.4A Sink / 1.6A Source at >

Choice of TTL or CMOS Input Thresholds

Four Versions of Dual Independent Drivers:

Dual Inverting + Enable (FAN3226)

Dual Non-Inverting + Enable (FAN3227)

Dual-Inputs in Two Pin-Out Configurations: ■ Compatible with FAN3225x (FAN3228) ■ Compatible with TPS2814D (FAN3229)

Internal Resistors Turn Driver Off If No Inputs

MillerDrive™ Technology

12ns / 9ns Typical Rise/Fall Times with 1nF Load

Typical Propagation Delay Under 20ns Matched within 1ns to the Other Channel

Double Current Capability by Paralleling Channels

Rated from -40°C to +125°C Ambient

8-Lead 3x3mm MLP or 8-Lead SOIC Package

## Application

ONSEMI

## Related Products



### [FAN3122TMX](#)

ON Semiconductor, LLC  
SOIC-8



### [FAN7602CMX](#)

ON Semiconductor, LLC  
SOIC-8



### [FAN7930BMX](#)

ON Semiconductor, LLC  
SOP-8



### [FAN7621BSJX](#)

ON Semiconductor, LLC  
SOP-16



### [FAN73912MX](#)

ON Semiconductor, LLC  
SOIC-16



### [FAN3223TMX](#)

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SOIC-8



[FAN7361MX](#)

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SOP-8



[FAN48630UC50X](#)

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WLCSP-16