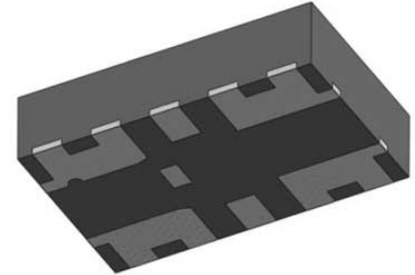


Single 2A High-Speed, Low-Side Gate Driver; Package: MLP; No of Pins: 6; Container: Tape & Reel, MOSFET & Power Driver ICs 2A W/DUAL TTL INPUTS

Manufacturers	<a href="#">ON Semiconductor, LLC</a>
Package/Case	MLP-6
Product Type	Power Management ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for FAN3100TMPX or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The FAN3100 2 A gate driver is designed to drive an N-channel enhancement-mode MOSFET in low-side switching applications by providing high peak current pulses during the short switching intervals. The driver is available with either TTL (FAN3100T) or CMOS (FAN3100C) input thresholds. Internal circuitry provides an under-voltage lockout function by holding the output low until the supply voltage is within the operating range. The FAN3100 delivers fast MOSFET switching performance, which helps maximize efficiency in high-frequency power converter designs. FAN3100 drivers incorporate MillerDrive™ architecture for the final output stage. This bipolar-MOSFET combination provides high peak 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 FAN3100 also offers dual inputs that can be configured to operate in non-inverting or inverting mode and allow implementation of an enable function. 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. The FAN3100 is available in a lead-free finish 2x2mm 6-lead Molded Leadless Package (MLP), for smallest size with excellent thermal performance, or industry-standard 5-pin SOT23.

## Features

3 A Peak Sink/Source at >

4.5 to 18 V Operating Range

2.5 A Sink / 1.8 A Source at >

Dual-Logic Inputs Allow Configuration as Non-Inverting or Inverting with Enable Function

Internal Resistors Turn Driver Off If No Inputs

13ns Typical Rise Time and 9 ns Typical Fall-Time with 1nF Load

Choice of TTL or CMOS Input Thresholds

MillerDrive™ Technology

Typical Propagation Delay Time Under 20ns with Input Falling or Rising

6-Lead 2x2 mm MLP or 5-Pin SOT23 Packages

Rated from -40°C to 125°C Ambient

## 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](#)

ON Semiconductor, LLC  
SOIC-8



### [FAN7361MX](#)

ON Semiconductor, LLC  
SOP-8



### [FAN48630UC50X](#)

ON Semiconductor, LLC  
WLCSP-16