

Gate Drivers Fast 65V Protected High-Side NMOS Static Switch Driver

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	MSOP-16
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC7003MPMSE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC7003 is a fast high side N-channel MOSFET gate driver that operates from input voltages up to 60V. It contains an internal charge pump that fully enhances an external N-channel MOSFET switch, allowing it to remain on indefinitely.

Its powerful driver can easily drive large gate capacitances with very short transition times, making it well suited for both high frequency switching applications or static switch applications that require a fast turn-on and/or turn-off time.

When an internal comparator senses that the switch current has exceeded a preset level, a fault flag is asserted and the switch is turned off after a period of time set by an external timing capacitor. After a cooldown period, the LTC7003 automatically retries.

The LTC7003 is available in the thermally-enhanced 16-lead MSOP package.

## Features

Wide Operating VIN: 3.5V to 60V

1Ω Pull-Down, 2.2Ω Pull-Up for Fast Turn-On and Turn-Off Times with 35ns Propagation Delays

Internal Charge Pump for 100% Duty Cycle

Short-Circuit Protected

Adjustable Current Trip Threshold

Current Monitor Output

Automatic Restart Timer

Open-Drain Fault Flag

Adjustable Turn-On Slew Rate

Gate Driver Supply from 3.5V to 15V

Adjustable VIN Undervoltage and Overvoltage Lockouts

Adjustable Driver Supply VCC Undervoltage Lockout

Low Shutdown Current: 1μA

CMOS Compatible Input

Thermally Enhanced, High Voltage Capable 16-Lead MSOP Package

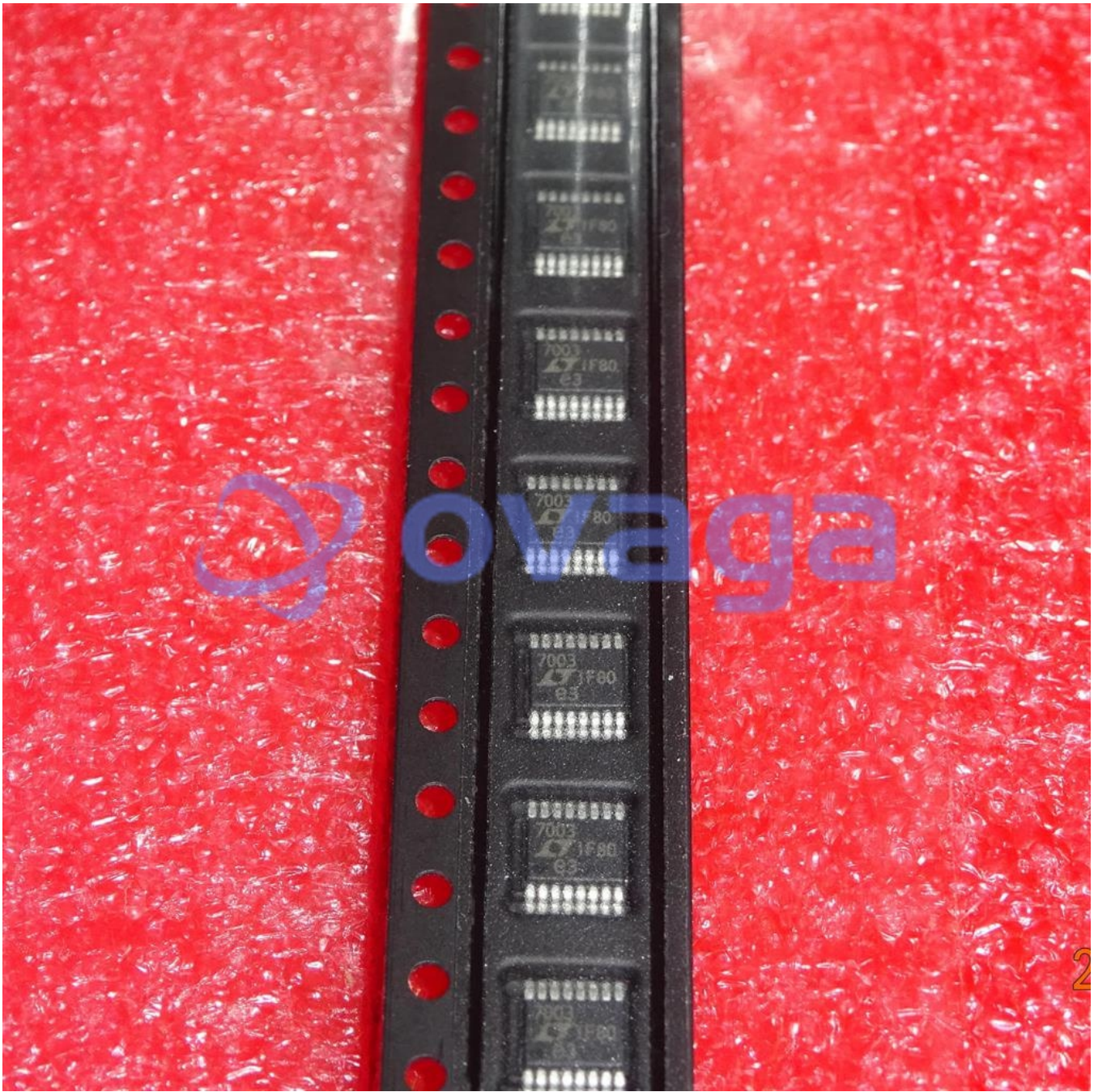
## Application

Static Switch Driver

Load and Supply Switch Driver

Electronic Valve Driver

High Frequency High Side Gate Driver



### Related Products



[LT3763EFE](#)

Analog Devices, Inc  
TSSOP28



[LT1038CK](#)

Analog Devices, Inc  
TO-3



[LTC4417IUF](#)

Analog Devices, Inc  
QFN-24



[LTC3440EMS](#)

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[LTC1966CMS8#PBF](#)

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[LTC2990IMS#PBF](#)

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