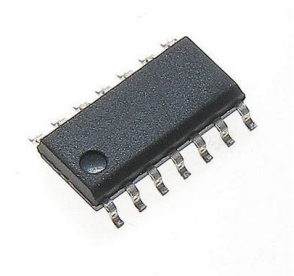



**625V, 3.3/5V input logic compatible, 0.5/0.25A sink/source current, Half Bridge Gate-Drive with fixed Deadtime, OCP/Shutdown protection**



Images are for reference only

<b>Manufacturer:</b>	<a href="#">ON Semiconductor, LLC</a>
<b>Package/Case:</b>	SOP14
<b>Product Type:</b>	Drivers
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active

[Inquiry](#)

## General Description

The FAN7384 is a monolithic half-bridge gate-drive IC designed for high voltage, high speed driving MOSFETs and IGBTs operating up to +600V. ON Semiconductor's high-voltage process and common-mode noise canceling technique provide stable operation of high-side drivers under high-dv/dt noise circumstances.

An advanced level-shift circuit allows high-side gate driver operation up to  $V_{DD}$  and  $V_{BS}$  are lower than the specified threshold voltage.

Output drivers typically source/sink 250mA/500mA, respectively, which is suitable for half-bridge and fullbridge applications in motor drive systems.

## Key Features

- Floating Channel for Bootstrap Operation to +600V
- Typically 250mA/500mA Sourcing/Sinking Current Driving Capability for Both Channels
- Extended Allowable Negative V<sub>S</sub>
- Matched Propagation Delay Below 50ns
- Output In-Phase with Input Signal
- 3.3V and 5V Input Logic Compatible
- Built-in Shoot-Through Prevention Logic
- Built-in Common Mode dv/dt Noise Canceling Circuit
- Built-in UVLO Functions for Both Channels
- Built-in Cycle-by-Cycle Shutdown Function
- Built-in Soft-Off Function
- Built-in Bi-Directional Fault Function
- Built-in Short-Circuit Protection Function

## Application

- Lighting
- Motion
- Other Industrial

## Recommended For You

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### FAN9611MX

ON Semiconductor, LLC  
SOP16

### FAN3111ESX

ON Semiconductor, LLC  
SOT23-5

### FAN6300AMY

ON Semiconductor, LLC  
SOP-8

### FAN7842MX

ON Semiconductor, LLC  
SOP8

### FAN73933MX

ON Semiconductor, LLC  
SOIC-14

### FAN73895MX

ON Semiconductor, LLC  
SOP-28

### FAN7380MX

ON Semiconductor, LLC  
SOP8

### FAN4810N

ON Semiconductor, LLC  
DIP16

### FAN7527BN

ON Semiconductor, LLC  
DIP-8

### FAN7530MX

ON Semiconductor, LLC  
SOP-8

### FAN7529MX

ON Semiconductor, LLC  
SOP-8

### FAN5405UCX

ON Semiconductor, LLC  
WLCSP-20

### FAN7382MX

ON Semiconductor, LLC  
SOP-8

### FAN73711MX

ON Semiconductor, LLC  
SOP8

### FAN7392N

ON Semiconductor, LLC  
DIP-14