

## Product Overview

### FAN3241: 60V Smart Dual-Coil Relay Drivers

For complete documentation, see the data sheet.

The FAN324x family includes dual high-current relay drivers designed to drive dual-coil polarized latching relays that connect and disconnect power in smart electronic meters and solar inverter applications. The output of the FAN324x is rated for operation with supply rails from 8 V to 60 V. The filter / timer block prevents inadvertent switching from noisy input signals by providing input-pulse qualification (tQUAL) and maximum output pulse width limit (tMAX). The parameters are factory adjustable and additional configurations are available. XOR input protection is also provided so that both outputs are prevented from being on at the same time. Under-Voltage Lockout (UVLO) function disables the outputs until the supply voltage is within the operating range. The FAN324x has two separate driver channels with non-inverting logic. One enable / disable pin allows shutdown of both channels, independent of the input signals. Internal thermal shutdown function is provided for thermal protection.

### Features

- 8-V to 60-V Operation for Unregulated Supply Line
  - Strong DC Current to Break through Welded Contacts without using External Switches
  - Integrated Linear Regulator for Isolated or Non-Isolated Meter Power Designs
  - Accurate Input Qualification Time with Output Pulse Width Limit (Factory Adjustable)
  - XOR Protection
  - TTL Input Threshold
  - Enable Pin for Operational Flexibility
  - Internal Thermal Shutdown Protection
  - 8-Lead SOIC Package
  - Rated from  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$  Ambient
- For more features, see the data sheet

### Applications

- Automation
- Building & Home Control
- Distribution
- Energy Generation & Distribution
- Other Automotive

### Part Electrical Specifications

Product	Compliance	Status	Type	Number of Drivers	$V_{in}$ Max (V)	$V_{CC}$ Max (V)	Drive Source/Sink Typ (mA)	Rise Time (ns)	Fall Time (ns)	$t_p$ Max (ns)	Package Type
FAN3241TMX	Pb-free Halide free	Active	Relay	2	70	-	1500	7	7		SOIC-8

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

Created on: 8/22/2019