

## Product Overview

### FAN7371: 625V, 3.3/5V input logic compatible 4/4A sink/source current, High Side Gate-Drive with 25V shunt regulator between V<sub>DD</sub> & GND, V<sub>b</sub> and V<sub>s</sub>

For complete documentation, see the data sheet.

The FAN7371 is a monolithic high-side gate drive IC, which can drive high-speed MOSFETs and IGBTs that operate up to +600V. It has a buffered output stage with all NMOS transistors designed for high pulse current driving capability and minimum cross-conduction. Fairchild's high-voltage process and common-mode noise canceling techniques provide stable operation of the high-side driver under high dv/dt noise circumstances. An advanced level-shift circuit offers high-side gate driver operation up to V<sub>S</sub> = -9.8V (typical) for V<sub>BS</sub> = 15V. The UVLO circuit prevents malfunction when V<sub>BS</sub> is lower than the specified threshold voltage. The high-current and low-output voltage drop feature makes this device suitable for sustain and energy recovery circuit switches driver in the Plasma Display Panel application, motor drive inverter, switching power supply, and high-power DC-DC converter applications.

### Features

- Floating Channel Designed for Bootstrap Operation to +600V
- 4A/4A Sourcing/Sinking Current Driving Capability
- Common-Mode dv/dt Noise Canceling Circuit
- 3.3V and 5V Input Logic Compatible
- Output In-phase with Input Signal
- Under-Voltage Lockout for V<sub>BS</sub>
- 25V Shunt Regulator on V<sub>DD</sub> and V<sub>BS</sub>
- 8-Lead Small Outline Package (SOP)

### Applications

- PDP TV
- Other Industrial

### Part Electrical Specifications

Product	Compliance	Status	Type	Number of Drivers	V <sub>in</sub> Max (V)	V <sub>CC</sub> Max (V)	Drive Source/Sink Typ (mA)	Rise Time (ns)	Fall Time (ns)	t <sub>p</sub> Max (ns)	Package Type
FAN7371MX	Pb-free Halide free	Active	MOSFET or IGBT	1	625	24	4000	25	15	210	SOIC-8

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Created on: 4/20/2019