

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_{DD} & GND, V_b and V_s

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. ON Semiconductor'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_S = -9.8V (typical) for V_{BS} = 15V. The UVLO circuit prevents malfunction when V_{BS} 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_{BS}
- 25V Shunt Regulator on V_{DD} and V_{BS}
- 8-Lead Small Outline Package (SOP)

Applications

- PDP TV
- Other Industrial

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Power Switch	Number of Outputs	Topology	Isolation Type	V _{in} Max (V)	V _{CC} Max (V)	Drive Source / Sink Typ (mA)	Rise Time (ns)	Fall Time (ns)	t _o Max (ns)	Package Type
FAN7371MX	0.468	Pb-free Halide free	Active	MOSFET / IGBT	1	High Side	Junction Isolation	625	24	4000	25	15	210	SOIC-8

For more information please contact your local sales support at www.onsemi.com.

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