

Product Overview

FAN73901: 625V, 3.3/5V input logic compatible, 2.5/2.5A sink/source current, Half Bridge Gate-Drive

For complete documentation, see the data sheet.

The FAN73901 is a monolithic high- and low-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_{DD} and V_{BS} are lower than the specified threshold voltage. The high current and low output voltage drop feature make FAN73901 suitable for the switching power supply, motor driver, and high-power DC-DC converter applications.

Features

- Floating Channels for Bootstrap Operation to +600V
- Typically 2.5A/2.5A Sourcing/Sinking Current Driving Capability
- Common-Mode dv/dt Noise Canceling Circuit
- Built-in Under-Voltage Lockout for Both Channels
- Matched Propagation Delay for Both Channels
- 3.3V and 5V Input Logic Compatible
- Output In-phase with Input

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_p Max (ns)	Package Type
FAN73901MX	0.7866	Pb-free Halide free non AEC-Q and PPAP	Active	MOSFET / IGBT	2	High-Low	Junction Isolation	625	25	2500	25	20	200	SOIC-8

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

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