

## Product Overview

### FAN7171\_F085: 625V, 4A, SOIC-8, High-Side Gate Drive IC

For complete documentation, see the data sheet.

The FAN7171\_F085 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 cancelling 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 sustaine switch driver and energy recovery switch driver in the Plasma Display Panel application, motor drive inverter, switching power supply, and high-power DC-DC converter applications.

### Applications

- Comfort and Convenience
- Body Electronics

### 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
FAN7171M-F085	1.6053	AEC Qualified PPAP Capable Pb-free Halide free	Active	MOSFET / IGBT		High Side	Junction Isolation	625	23	4000				SOIC-8
FAN7171MX-F085	1.6333	AEC Qualified PPAP Capable Pb-free Halide free	Active	MOSFET / IGBT		High Side	Junction Isolation	625	23	4000				SOIC-8
FAN7171MX-F085P	1.6333	AEC Qualified PPAP Capable Pb-free Halide free	Active	MOSFET / IGBT		High Side	Junction Isolation	625	23	4000				SOIC-8

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