Product Overview

FAN73832: 625V,0.65/0.35A sink/source current, Half Bridge Gate-Drive with variable Deadtime, Shutdown protection

For complete documentation, see the data sheet.

The FAN73832 is a half-bridge, gate-drive IC with shutdown and programmable dead-time control functions for driving MOSFETs and IGBTs, operating up to +600V. ON Semiconductor's high-voltage process and common-mode noise canceling technique provide stable operation of high-side driver under high dv/dt noise circumstances. An advanced level-shift circuit allows high-side gate driver operation up to VS=-9.8V (typical) for VBS=15V. The UVLO circuits for both channels prevent malfunction when VDD and VBS are lower than the specified threshold voltage. Output drivers typically source/sink 350mA/650mA, respectively, which is suitable for all kinds of half- and full-bridge inverters.

Features

- Floating Channel for Bootstrap Operation to +600V
- Typically 350mA/650mA Sourcing/Sinking Current Driving Capability for Both Channels
- Extended Allowable Negative VS Swing to -9.8V for Signal Propagation at VDD<=VBS=15V
- High-Side Output in Phase of IN Input Signal
- Built-in UVLO Functions for Both Channels
- Built-in Common-Mode dv/dt Noise Canceling Circuit
- Internal 400nsec Minimum Dead-Time at RDT=20KO
- Programmable Turn-on Delay-Time Control (Dead-Time)

Applications

- Lighting
- 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
FAN73832MX	0.4667	Pb-free Halide free non AEC-Q and PPAP	Active	MOSFET / IGBT	2	Half-Bridge	Junction Isolation	625	25	350 / 650	50	30	730	SOIC-8

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

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