

## Product Overview

### FAN7710V: Ballast Controller for Compact Fluorescent Lamps

For complete documentation, see the data sheet.

FAN7710V developed using ON Semiconductor's unique high-voltage process and system-in-package (SiP) concept, are ballast control integrated circuits (ICs) for compact fluorescent lamps (CFL). FAN7710V incorporate a preheating / ignition function, controlled by a user-selected external capacitor, to increase lamp life. The FAN7710V detects switch operation after ignition mode through an internal active Zero-Voltage Switching (ZVS) control circuit (FAN7710VL does not). This control scheme enables the FAN7710V to detect an open-lamp condition without the expense of external circuitry and prevents stress on MOSFETs. The high-side driver built into the FAN7710V has a common-mode noise cancellation circuit that provides robust operation against high-dv/dt noise intrusion.

#### Features

- Integrated High Side gate driver & Half-Bridge MOSFET
- Controllable operating frequency & preheating time
- Internal Active Zero Voltage Switching control
- Low start up & Operating current: 120  $\mu$ A, 2.6 mA

#### Benefits

- Low eBOM counts
- Easy & flexible design
- Reliable high efficiency operation
- Low power consumption

#### Applications

- Lighting

#### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Topology	V <sub>I</sub> Min (V)	V <sub>I</sub> Max (V)	V <sub>O</sub> Max (V)	I <sub>O</sub> Max (mA)	f <sub>SW</sub> Typ (kHz)	Package Type
FAN7710VN	1.5812	Pb-free Halide free	Active	Half-Bridge	14.4 V <sub>DC</sub>	440 V <sub>DC</sub>	440 V <sub>OUT</sub>	380 - Continuous I <sub>S</sub>	53	PDIP-8

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