

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 μ 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 _I Min (V)	V _I Max (V)	V _O Max (V)	I _O Max (mA)	f _{SW} Typ (kHz)	Package Type
FAN7710VN	1.5812	Pb-free Halide free non AEC-Q and PPAP	Active	Half-Bridge	14.4 V _{DC}	440 V _{DC}	440 V _{OUT}	380 - Continuous I _S	53	PDIP-8

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

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