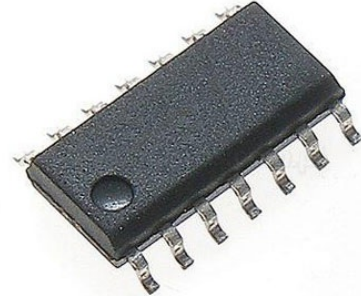


AC/DC DIGITAL POWER CONTROLLER F

Manufacturers	Renesas Technology Corp
Package/Case	SOP-14
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for iW3623-00 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

Non-dimmable LED driver for 45W commercial SSL lighting

The iW3623 is a high performance, two-stage, non-dimmable 45W SSL LED driver that integrates boost and flyback converters into a single IC to reduce BOM cost and simplify design versus conventional two-stage driver approaches. Compliant to the IEC61000-3-2 standard, the iW3623 offers Power Factor (PF) >0.95 from a universal input voltage of 100VAC to 277VAC, with total harmonic distortion (THD) <10% and low output ripple <5% over the entire range.

The iW3623 incorporates Dialog's proprietary PrimAccurate™ primary-side control technology, eliminating the need for a secondary-side regulator and optical feedback isolator. It also allows FETs to be replaced with lower cost BJTs and uses quasi-resonant mode switching for both the boost and flyback stages and dynamic base current to optimize conversion efficiency and minimize EMI.

Protection features include an on-board, external NTC-based temperature protection circuit that reduces the output drive to the LEDs to protect the circuit from overheating while maintaining light output. For more information on the over-temperature protection derating feature, [click here](#).

Application: Universal, High PF, Non-Dimmable LED Driver for 45W Commercial SSL Lighting

Features

High PF (>0.95) and Low THD (< 10%)

Low Output Ripple Current (<5%)

PrimAccurate™ - Isolated Offline AC/DC Controller

45W LED Driver for Non-Dimmable Commercial Solid-State Lighting Applications

Flickerless™ Technology

Removes Virtually All LED Flicker

Resonant Mode for Optimal Efficiency

Fully Protected

NTC-based Temperature Derating Circuit

Overvoltage/Over-Temperature Protection

Output Overvoltage, Overcurrent and Short Circuit

Open LED Fault Detection

Sense-Resistor Short Circuit Protection

Single-Fault Protection

Application

Non-Dimmable LED Lamps and Luminaires

Optimized for up to 45W Output Power

Related Products



[iW3602-01](#)

Renesas Technology Corp
SO-8



[iW1677-00](#)

Renesas Technology Corp
SOT-23-6



[iW3620-00](#)

Renesas Technology Corp
SOP-8



[iW1816-20-SO7](#)

Renesas Technology Corp



[iW1760B-00](#)

Renesas Technology Corp
SOP-8



[iW1760-01](#)

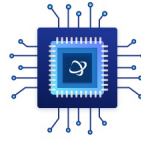
Renesas Technology Corp
SOP8



[iW1691-03](#)

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SOP-8



[iW657P](#)

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