

FAN7314 LCD Backlight Inverter Drive IC

Features

- High-Efficiency Single-Stage Power Conversion
- Wide Input Voltage Range: 5V to 25.5V
- Back Light Lamp Ballast and Soft Dimming
- Reduces Number of Required External Components
- Precision Voltage Reference Trimmed to 2%
- ZVS Half-Bridge Topology
- Soft Start
- PWM Control at Fixed Frequency
- Analog and Burst Dimming Function
- Programmable Striking Frequency
- Open-Lamp Protection
- Open-Lamp Regulation
- 20-Pin SOIC

Description

The FAN7314 provides all the control functions for a series parallel resonant converter as well as a pulse width modulation (PWM) controller to develop a supply voltage. Typical operating frequency range is between 30kHz and 250kHz, depending on the CCFL and the transformer's characteristics.

20-SOIC



Ordering Information

Part Number	Package	Operating Temperature Range	Packing Method
FAN7314M	20-SOIC	-25°C ~ 85°C	Rail
FAN7314MX	20-SOIC		Tape & Reel



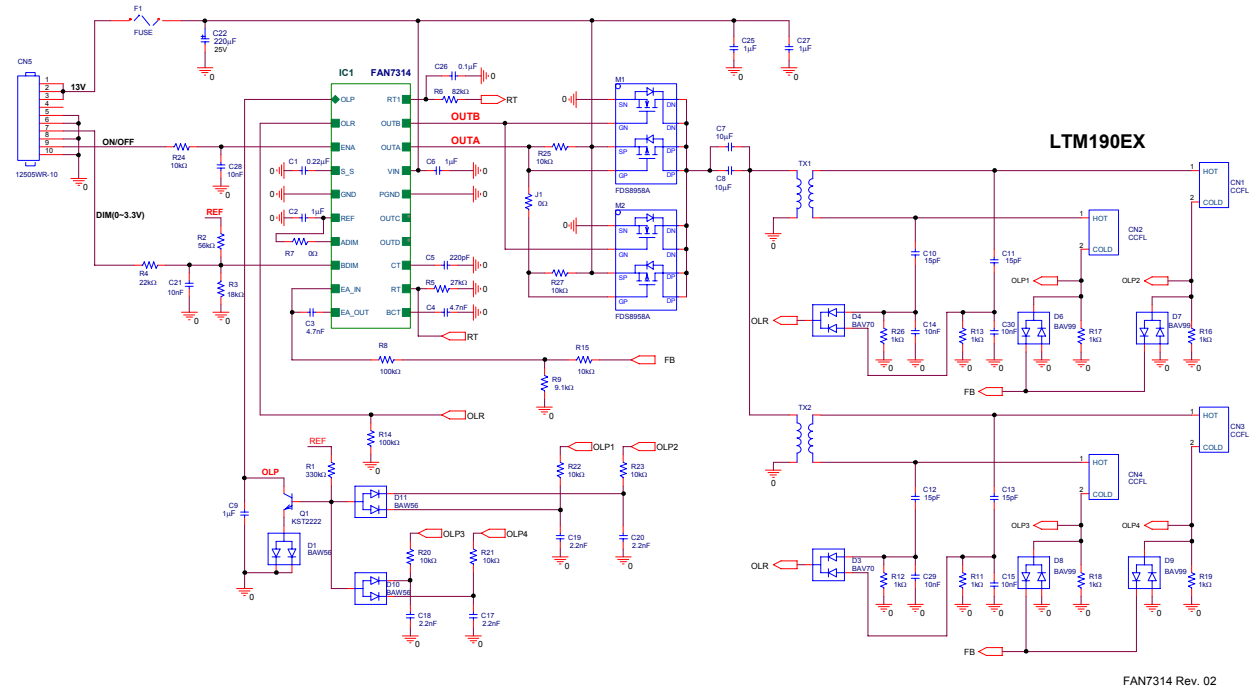
All packages are lead free per JEDEC J-SDD-020B standard.

Protected by U.S. Patent: 5,652,479.

Typical Application Circuit

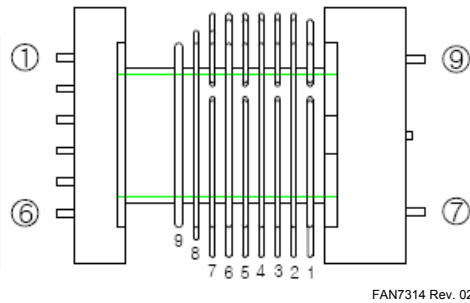
Application	Lamps	Input Voltage
19 inch LCD Monitor	4	13V

1. Schematic



2. Transformer Schematic Diagram

Supported by Namyang electronics (<http://www.namyangelec.co.kr>)




3. Core & Bobbin

- Core: EFD2124
- Material: PL7
- Bobbin: EFE2124



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Rev. I31