

FAN7311

LCD Backlight Inverter Drive IC

Features

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

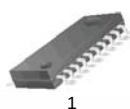
Applications

- LCD TV
- LCD Monitor

Description

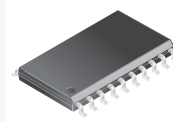
The FAN7311 provides all the control functions for a series parallel resonant converter as well as a pulse width modulation (PWM) controller to develop a supply voltage. Typical operating frequency range is between 30kHz and 250kHz, depending on the cold cathode fluorescent lamp (CCFL) and the transformer's characteristics. FAN7311 uses a new patented phase-shift control.

20-SSOP



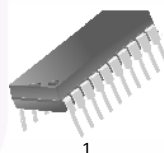
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20-SOIC



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20-DIP



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Ordering Information

Part Number	Package	Operating Temperature Range	Packing Method
FAN7311G	20-SSOP	-25°C to 85°C	Rail
FAN7311GX	20-SSOP		Tape & Reel
FAN7311M	20-SOIC		Rail
FAN7311MX	20-SOIC		Tape & Reel
FAN7311N	20-DIP		Rail



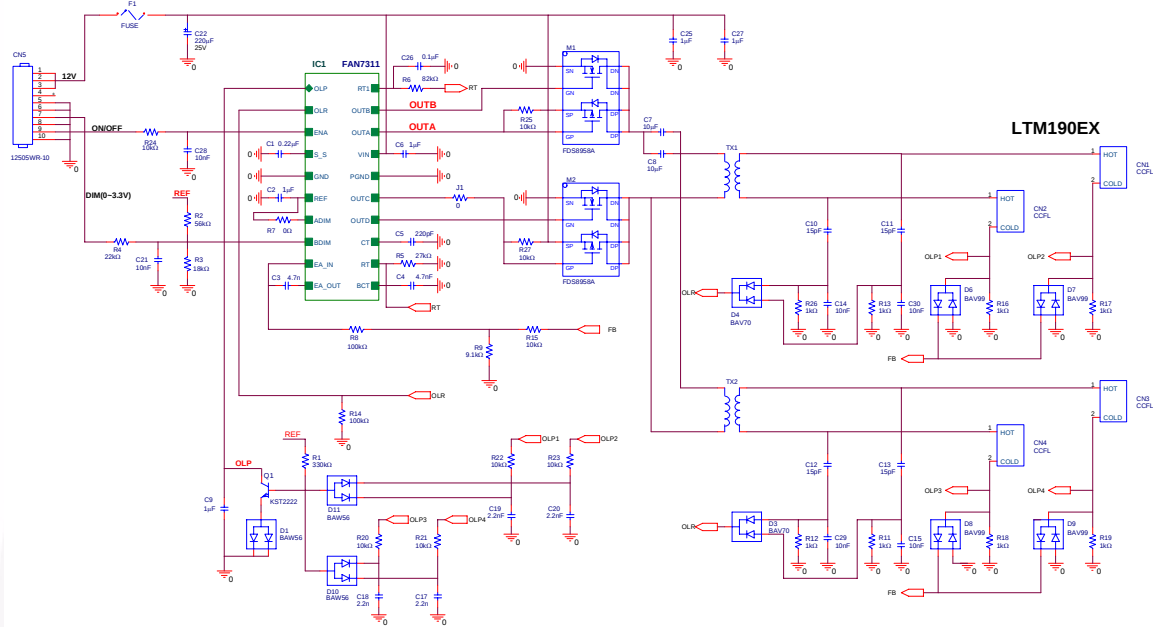
All packages are lead free per JEDEC: J-STD-020B standard.

Protected by U.S. Patent: 5,652,479; 7,158,390.

Typical Application Circuits

Application	Lamps	Input Voltage
19-inch LCD Monitor	4	13V

1. Schematic





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		SuperSOT [™] -6	
		SuperSOT [™] -8	

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