

FAN7313 LCD Backlight Inverter Drive IC

Features

- High-Efficiency Single-Stage Power Conversion
- Wide Input Voltage Range: 4.5V to 25.5V
- Backlight Lamp Ballast and Soft Dimming
- Reduces Required External Components
- Precision Voltage Reference Trimmed to 2%
- Push-Pull Topology
- Soft-Start Capability
- PWM Control at Fixed Frequency
- Analog and Burst Dimming Functions
- Open-Lamp Protection
- Open-Lamp Regulation
- Over-Voltage Protection
- Short-Circuit Protection
- 20-Pin SOIC

Applications

- LCD TV
- LCD Monitor

Description

FAN7313 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.



Ordering Information

Part Number	Package	Pb-Free	Operating Temperature Range	Packing Method
FAN7313M	20-SOIC	Yes	-25°C ~ 85°C	Rail
FAN7313MX	20-SOIC	Yes		Tape & Reel

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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	This datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.
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