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June 2011

SEMICONDUCTOR®

FAN7318B LCD Backlight Inverter Drive IC

Features

- High-Efficiency Single-Stage Power Conversion
- Wide Input Voltage Range: 6V to 30V
- Backlight Lamp Ballast and Soft Dimming
- Minimal External Components Required
- Precision Voltage Reference Trimmed to 2%
- Half-Bridge Topology
- Soft-Start
- PWM Control at Fixed Frequency
- Analog Dimming Function
- Burst Dimming Function
- Programmable Striking Frequency
- Open-Lamp Protection
- Open-Lamp Regulation
- Over-Voltage Protection
- Short-Lamp Protection
- CMP-High Protection
- Thermal Shutdown
- 20-Pin SOIC

Applications

- LCD TV
- LCD Monitor

The FAN7318B is a LCD backlight inverter drive IC that controls P-N half-bridge topology.

Description

The FAN7318B provides a low-cost solution and reduces external components by integrating proprietary wave rectifiers for open-lamp protection and regulation. The operating voltage range of the FAN7318B is wide, so an external regulator isn't necessary to supply the voltage to the IC.

The FAN7318B provides various protections, such as open-lamp regulation, over-voltage protection, open-lamp protection, short-Lamp protection, CMP-high protection, to increase the system reliability. The FAN7318B provides burst dimming and analog dimming.

The FAN7318B is available in a 20-SOIC package.



Ordering Information					
Part Number	Operating Temperature	Package	Packing Method		
FAN7318BM	-25 to +85°C	20-Lead, Small Outline Integrated Circuit (SOIC)	Rail		
FAN7318BMX			Tape & Reel		

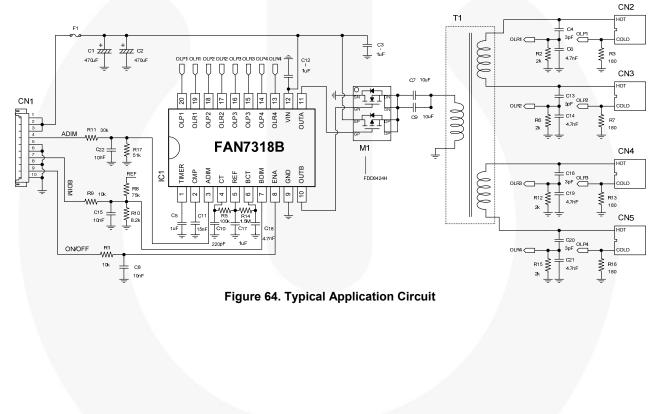


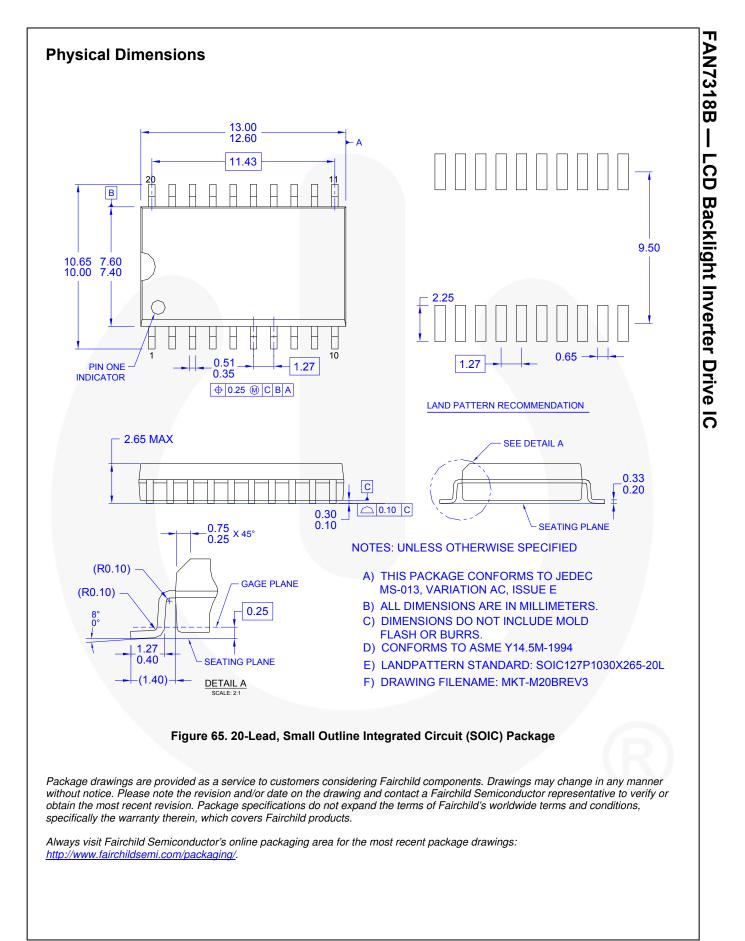
Typical Application Circuit (LCD Backlight Inverter)

Application	Device	Input Voltage Range	Number of Lamps
22-Inch LCD Monitor	FAN7318B	15V±10%	4

1. Features

- High-Efficiency, Single-Stage Power Conversion
- P-N Half-Bridge Topology
- Reduces Required External Components
- Enhanced System Reliability through Protection Functions





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Definition of Terms

Datasheet Identification	Product Status	Definition	
Advance Information	Formative / In Design	Datasheet contains the design specifications for product development. Specifications may change in any manner without notice.	
Preliminary	First Production	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.	
No Identification Needed	Full Production	Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design.	
Obsolete	Not In Production	Datasheet contains specifications on a product that is discontinued by Fairchild Semiconductor. The datasheet is for reference information only.	
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