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# FAN7318A

## 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 (OLP)
- Open-Lamp Regulation (OLR)
- Over-Voltage Protection (OVP)
- Short-Lamp Protection (SLP)
- CMP-High Protection (CHP)
- Thermal Shutdown (TSD)
- 16-Pin SOIC Package

### Applications

- LCD TV
- LCD Monitor

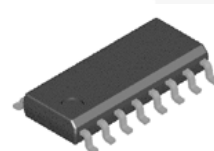
### Description

The FAN7318A is a LCD backlight inverter drive IC that controls P-N half-bridge topology.

The FAN7318A provides a low-cost solution and reduces external components by integrating proprietary wave rectifiers for open-lamp protection and regulation. The operating voltage range is wide, so an external regulator isn't necessary to supply voltage to the IC.

The FAN7318A provides various protections, such as open-lamp regulation, over-voltage protection, open-lamp protection, short-lamp protection, and CMP-HIGH protection, to increase the system reliability. The FAN7318A provides burst dimming and analog dimming.

The FAN7318A is available in a 16-SOIC package.



### Ordering Information

Part Number	Operating Temperature	Package	Eco Status	Packing Method
FAN7318AM	-25 to +85°C	16-Lead, Small Outline Integrated Circuit (SOIC)	RoHS	Rail
FAN7318AMX				Tape & Reel

 For Fairchild's definition of Eco Status, please visit: [http://www.fairchildsemi.com/company/green/rohs\\_green.html](http://www.fairchildsemi.com/company/green/rohs_green.html).

## Typical Application Circuit (LCD Backlight Inverter)

Application	Device	Input Voltage Range	Number of Lamps
22-Inch LCD Monitor	FAN7318A	15V±10%	2

### 1. Features

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

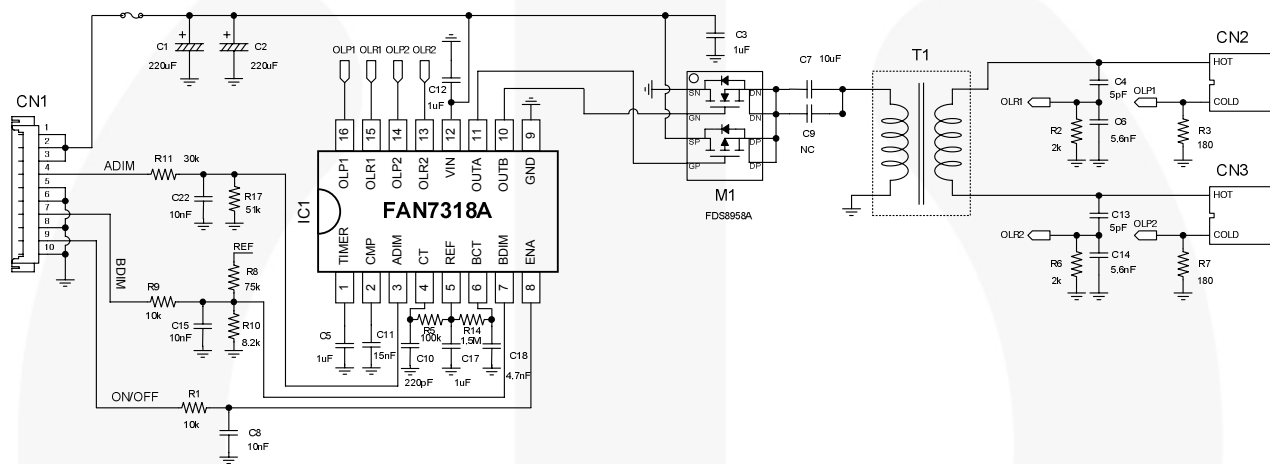


Figure 64. Typical Application Circuit

## Physical Dimensions

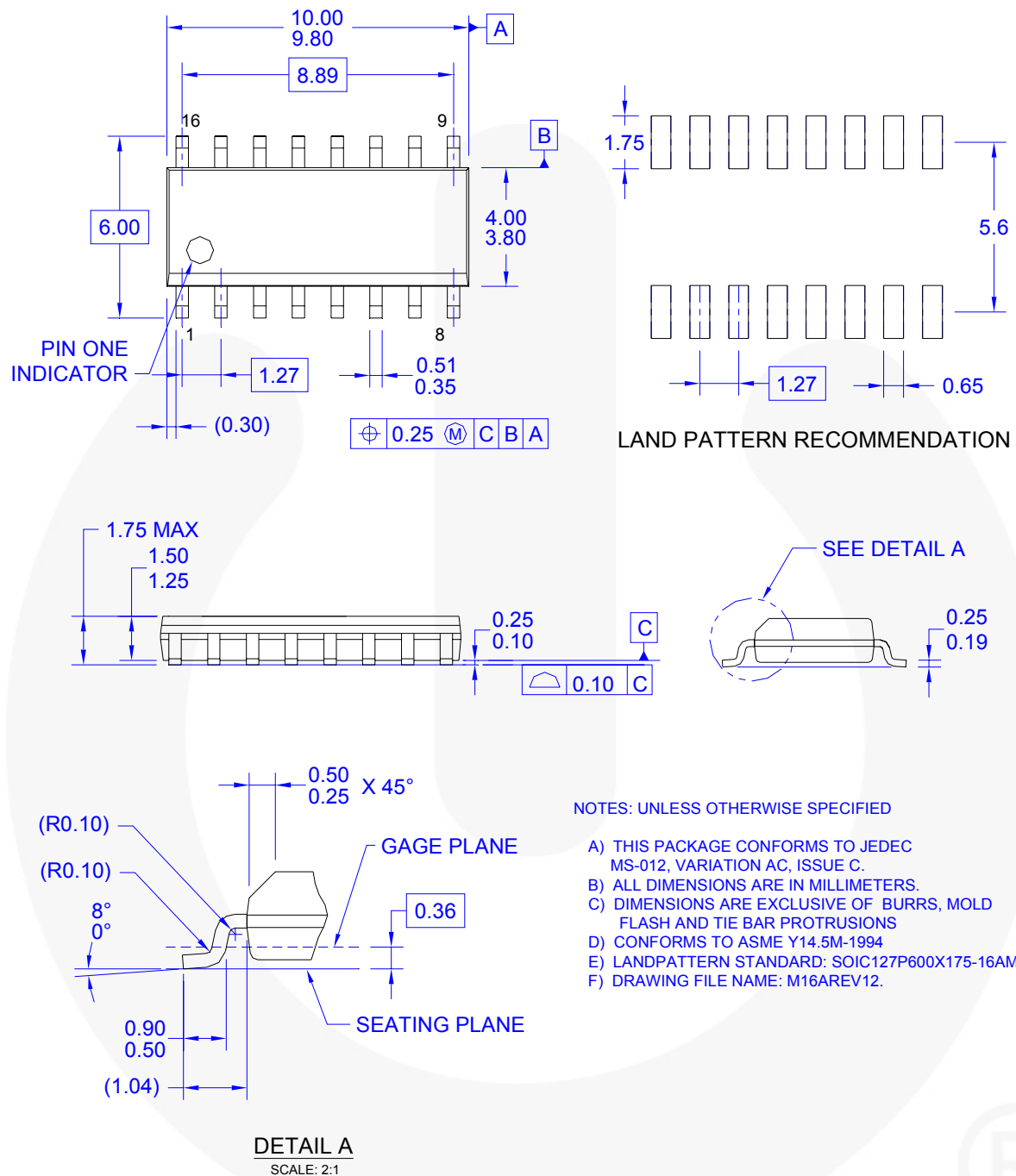


Figure 65. -Lead, Small Outline Integrated Circuit (SOIC) Package





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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.
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