

# FAN7317B

## LCD Backlight Inverter Drive IC

### Features

- High-Efficiency, Single-Stage Power Conversion
- Wide Input Voltage Range: 6V to 28V
- Backlight Lamp Ballast and Soft Dimming
- Minimal Required External Components
- Precision Voltage Reference Trimmed to 2%
- ZVS Full-Bridge Topology
- Soft-Start
- PWM Control at Fixed Frequency
- Burst Dimming Function
- Dynamic Contrast Ratio Function
- Programmable Striking Frequency
- Open-Lamp Protection (OLP)
- Open-Lamp Regulation (OLR)
- Short-Lamp Protection (SLP)
- Thermal Shutdown (TSD)
- 20-Pin SOIC

### Applications

- LCD TV
- LCD Monitor

### Description

The FAN7317B is a LCD backlight inverter drive IC that controls P-N full-bridge topology using a new propriety phase-shift method.

The FAN7317B provides a low-cost solution and reduces external components by integrating full wave rectifiers for open-lamp protection and regulation (patent pending). The operating voltage range of the FAN7317B is wide, so an external regulator isn't necessary to supply the voltage to the IC.

The FAN7317B provides protections such as open-lamp regulation, open-lamp protection, and short-lamp protection to increase the system reliability. The FAN7317B provides a burst-dimming function and analog dimming is possible, in a narrow range, by adding external components.

The FAN7317B is available in a 20-pin SOIC package.

**20-SOIC**



### Ordering Information

Part Number	Operating Temperature	Eco Status	Package	Packing Method
FAN7317BM	-25 to +85°C	RoHS	20-Pin Small Outline Integrated Circuit (SOIC)	Rail
FAN7317BMX				Tape and 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).

Protected under U.S. patent nos. 5,652,479 and 7,158,390.

Block Diagram

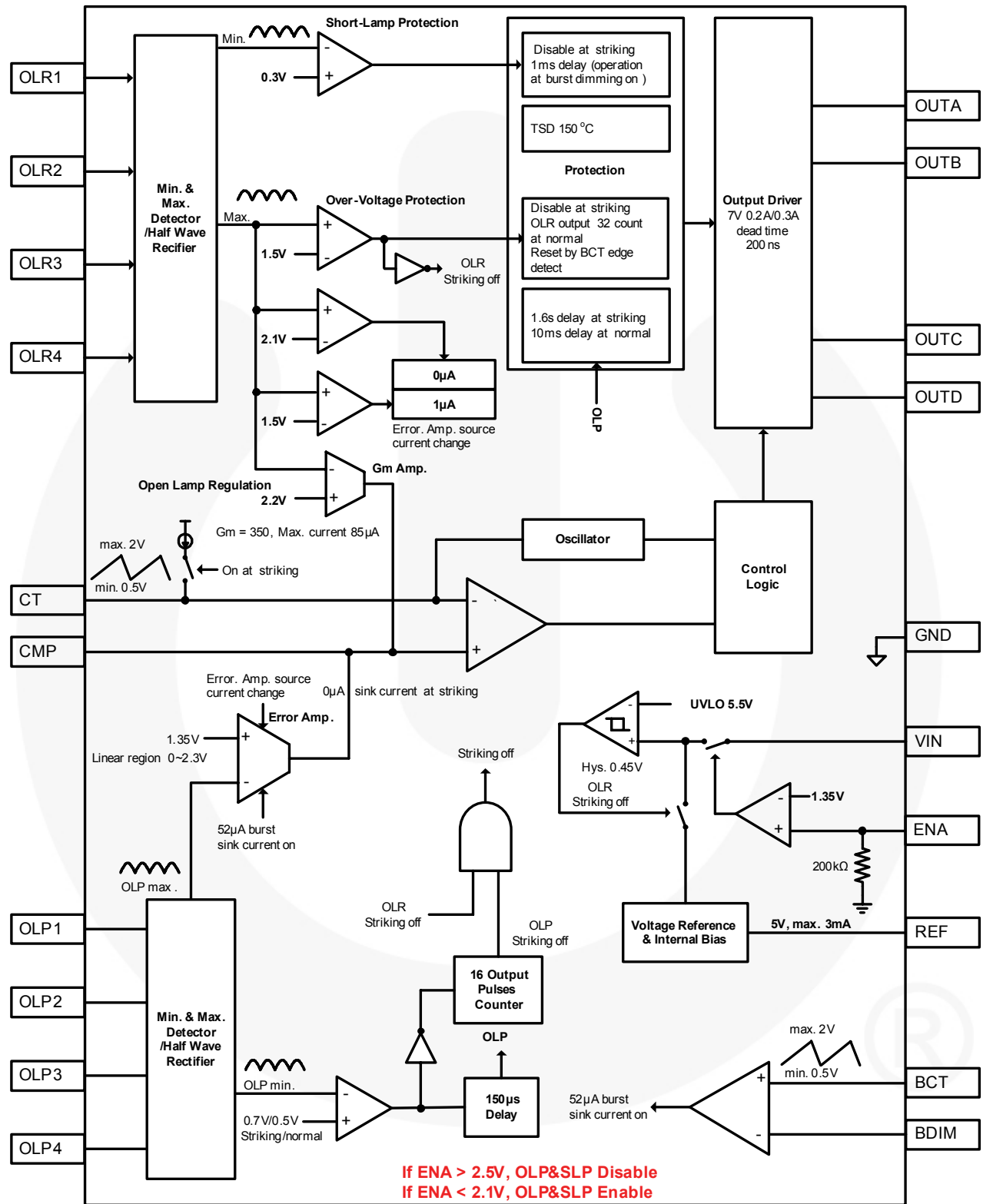





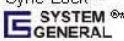


Figure 1. Internal Block Diagram



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FlashWriter®*	Power-SPM™	 SYSTEM GENERAL	

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**Definition of Terms**

Datasheet Identification	Product Status	Definition
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