

Part No.

TNY253GN

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TNY253GN Datasheet (PDF) - Power Integrations, Inc.

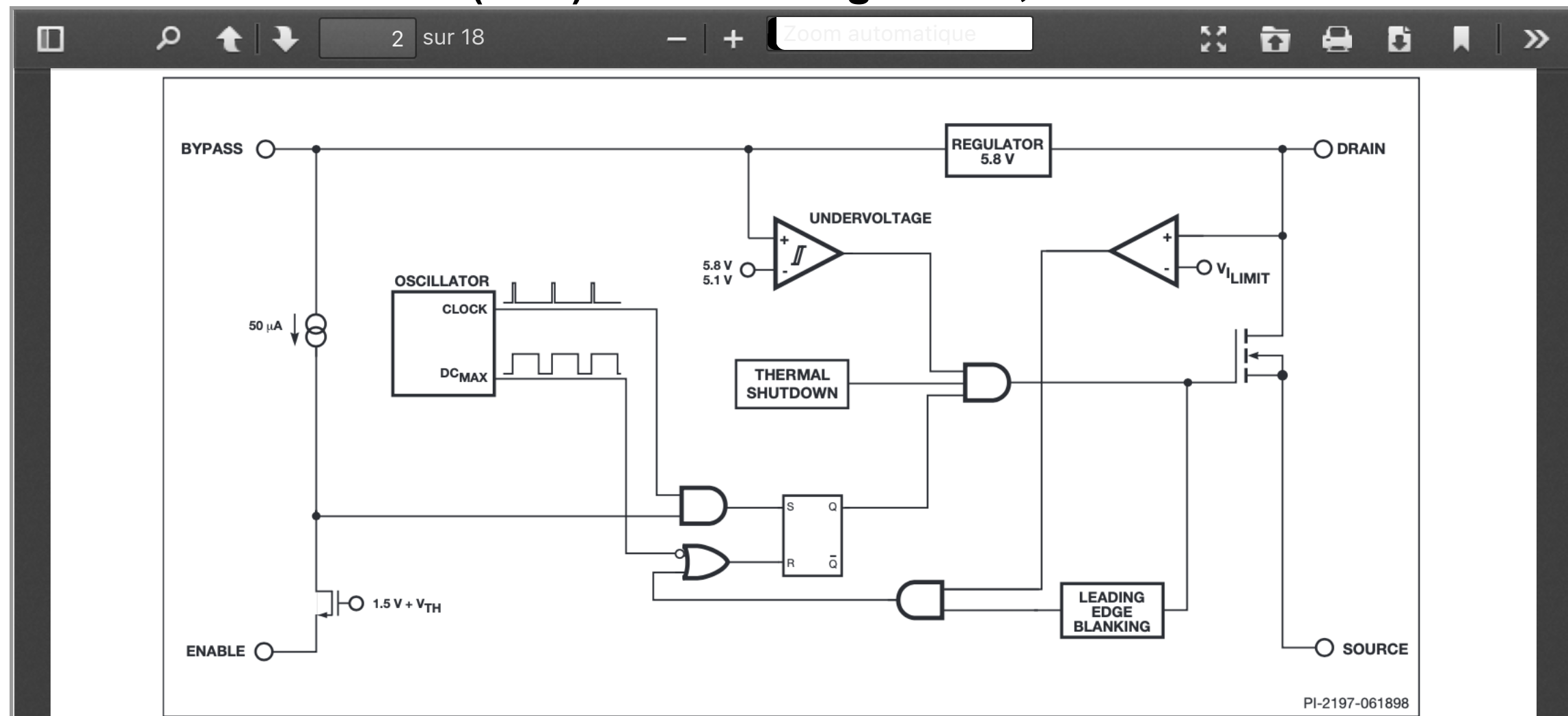


Figure 2. Functional Block Diagram.

Pin Functional Description

DRAIN (D) Pin:
Power MOSFET drain connection. Provides internal operating current for both start-up and steady-state operation.

BYPASS (BP) Pin:
Connection point for an external bypass capacitor for the internally generated 5.8 V supply. Bypass pin is not intended for sourcing supply current to external circuitry.

ENABLE (EN) Pin:
The power MOSFET switching can be terminated by pulling this pin low. The I-V characteristic of this pin is equivalent to a voltage source of approximately 1.5 V with a source current clamp of 50 μA.

SOURCE (S) Pin:
Power MOSFET source connection. Primary return.

TinySwitch Functional Description

TinySwitch is intended for low power off-line applications. It combines a high-voltage power MOSFET switch with a...

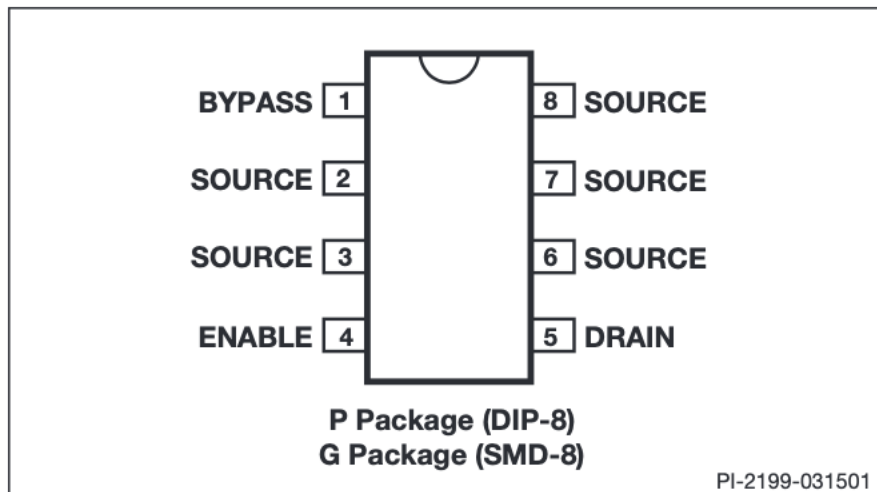


Figure 3. Pin Configuration.

Hysteretic Over Temperature Protection, Current Limit circuit, Leading Edge Blanking, and a 700 V power MOSFET. Figure 2 shows a functional block diagram with the most important features.

Oscillator
The oscillator frequency is internally set at 44 kHz (130 kHz for the TNY255). The two signals of interest are the Maximum Duty Cycle signal (D_{MAX}) which runs at typically 67% duty cycle and the Clock signal that indicates the beginning of each cycle. When cycles are skipped (see below), the oscillator frequency doubles (except for TNY255 which remains at

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