

Product Overview

FAN6754WAMR: Green-Mode PWM Controller for Flyback Converter, 65KHz, Brown In/Out Protection

For complete documentation, see the data sheet.

The highly integrated FAN6754A PWM controller provides several features to enhance the performance of flyback converters. To minimize standby power consumption, a proprietary green-mode function provides off-time modulation to continuously decrease the switching frequency under light-load conditions.

Under zero-load and very light-load conditions, FAN6754A saves PWM pulses by entering deep burst mode. This burst mode function enables the power supply to meet international power conservation requirements.

FAN6754A integrates a frequency-hopping function internally to reduce EMI emission of a power supply with minimum line filters. Built-in synchronized slope compensation is accomplished by proprietary HV monitor to adjust V_{Limit} for constant output power limit over universal AC input range. The gate output is clamped at 13V to protect the external MOSFET from over-voltage damage.

Other protection functions include AC input brownout protection with hysteresis, SENSE pin short-circuit protection, and V_{DD} over-voltage protection. For overtemperature protection, an external NTC thermistor can be applied to sense the external switcher's temperature. When V_{DD} OVP or OTP are activated, an internal latch circuit is used to latch-off the controller. The latch mode is reset when the V_{DD} supply is removed.

FAN6754A is available in an 8-pin SOP package.

Features

- High-Voltage Startup
- AC Input Brownout Protection with Hysteresis• Monitor HV to Adjust V_{Limit}
- Low Operating Current: 1.5mA
- Linearly Decreasing PWM Frequency to 22KHz
- Frequency Hopping to Reduce EMI Emission
- Fixed PWM Frequency: 65KHz
- Peak-Current-Mode Control
- Cycle-by-Cycle Current Limiting
- Leading-Edge Blanking (LEB)
- Internal Open-Loop Protection

For more features, see the data sheet

Applications

- Notebook PC
- LCD Monitor
- LCD TV

Part Electrical Specifications

Product	Compliance	Status	Topology	Phases	Control Mode	V_{CC} Min (V)	V_{CC} Max (V)	f_{sw} Typ (kHz)	Package Type
FAN6754WAMRMY	Pb-free Halide free	Active	Flyback	1	Current Mode	16	18	65	SOIC-8

For more information please contact your local sales support at www.onsemi.com.

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