

Product Overview

FAN6921MR: mWSaver™ Power Factor Controller (PFC) CrCM + QR PWM Controller, Brown Out Protection

For complete documentation, see the data sheet.

The highly integrated FAN6921MR combines Power Factor Correction (PFC) controller and Quasi-Resonant PWM controller. Integration provides cost effect design and allows for fewer external components.

For PFC, FAN6921MR uses a controlled on-time technique to provide a regulated DC output voltage and to perform natural power factor correction. With an innovative THD optimizer, FAN6921MR can reduce input current distortion at zero-crossing duration to improve THD performance.

For PWM, FAN6921MR provides several functions to enhance the power system performance: valley detection, green-mode operation, high / low line over power compensation. FAN6921MR provides many protection functions as well: secondary-side open-loop and over-current with auto recovery protection, external latch triggering, adjustable over-temperature protection by RT pin and external NTC resistor, internal over-temperature shutdown, VDD pin OVP, and DET pin over-voltage for output OVP, and brown-in / out for AC input voltage UVP.

The FAN6921MR controller is available in a 16-pin small outline package (SOP).

Features

- Integrated PFC and Flyback Controller
- Critical Mode PFC Controller
- Zero-Current Detection for PFC Stage
- Quasi-Resonant Operation for PWM Stage
- Internal Minimum t_{OFF} 8 μ s for QR PWM Stage
- Internal 10ms Soft-Start for PWM
- Brownout Protection
- High / Low Line Over-Power Compensation
- Auto-Recovery Over-Current Protection
- Auto-Recovery Open-Loop Protection

For more features, see the data sheet

Applications

- AC-DC Merchant Power Supply

Part Electrical Specifications

Product	Compliance	Status	PFC Mode	Frequency Operation	Control Mode	Topology	f_{sw} Typ (kHz)	V_{CC} Max (V)	Drive Cap. (mA)	UVLO (V)	Latch	UVP	Inhibition	Package Type
FAN6921MRMY	Pb-free Halide free	Active	CrCM/BCM	Variable	Voltage Mode	Step-Up	Variable	30	550 / 700	18	Yes	Yes	No	SOIC-16

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

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