

Product Overview

NCP1294: PWM Controller for Flyback or Forward Converters

For complete documentation, see the data sheet.

The NCP1294 fixed frequency flyback PWM controller contains all of the features necessary for basic flyback, forward or boost operation. This PWM controller has been optimized for high frequency primary side control operation. In addition, this device includes such features as: Soft Start, accurate duty cycle limit control, less than 50uA startup current, over and under voltage protection, and bidirectional synchronization. The NCP1294 is available in a SOIC-16 and TSSOP-16 surface mount packages.

Features

- 1MHz Frequency Capability
- 1A Sink/Source Gate Drive
- Programmable Pulse-by-Pulse Overcurrent Protection
- Programmable Soft Start

Benefits

- Scalable for small size or high efficiency
- Ability to drive high efficiency MOSFETs
- Flexible application
- Power sequencing

Applications

- MPPT (Maximum Peak Power Tracking)

End Products

- Solar Power Battery Charger

Part Electrical Specifications

Product	Compliance	Status	Topology	Phases	Control Mode	V _{CC} Min (V)	V _{CC} Max (V)	f _{sw} Typ (kHz)	Package Type
NCP1294EDBR2G	Pb-free	Active	Half-Bridge	1	Current Mode	4.7	100	Up to 1000	TSSOP-16
	Halide free		Step-Up						
			Flyback						
			Step-Down						
			Forward						

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

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