

Product Overview

NCP4354: Secondary Side Sleep mode Controller for Low Standby Power Adapters

For complete documentation, see the data sheet.

The NCP4353 and NCP4354 are secondary side SMPS controllers designed for use in applications which require extremely low no load power consumption. The device is capable of detecting 'no load' conditions and entering the power supply into a low consumption OFF mode. During OFF mode, the primary side controller is turned off and energy is provided by the output capacitors thus eliminating the power consumption required to maintain regulation. During OFF mode, the output voltage relaxes and is allowed to decrease to an adjustable level. Once more energy is required, the NCP4353 or NCP4354 automatically restarts the primary side controller. During normal power supply operation, the devices provide integrated voltage feedback regulation, replacing the need for a shunt regulator. The A versions include a current regulation loop in addition to voltage regulation. Feedback control as well as ON/OFF signal can be provided with only one optocoupler. The NCP4354 includes a LED driver pin implemented with an open drain MOSFET driven by a 1 kHz square wave with a 12.5% duty cycle for indication purpose. The NCP4354 is available in SOIC-8 package and the NCP4353 is available in TSOP-6.

Features

- Supply Current <100 uA
- Constant current and constant voltage regulation (A version)
- +-1% reference voltage accuracy over temperature

Benefits

- Low power consumption in all operating modes
- Optional current regulation
- Accurate regulation

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

Created on: 8/8/2020