

Product Overview

CS51221: Enhanced Voltage Mode PWM Controller for Forward or Flyback

For complete documentation, see the data sheet.

The CS51221 Enhanced Voltage Mode PWM Controller contains all of the features necessary for basic voltage mode 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 CS51221 is available in a SOIC-16 and TSSOP-16 surface mount packages.

Features

- 1MHz Frequency Capability
- Fixed Frequency Voltage Mode Operation, with Feed Forward
- Thermal Shutdown
- Under Voltage Lock-out
- Accurate Programmable Max Duty Cycle Limit
- 1A Sink/Source Gate Drive
- Programmable Pulse-by-Pulse Overcurrent Protection
- Leading Edge Current Sense Blanking
- 75ns Shutdown Propagation Delay
- Programmable Soft Start

For more features, see the data sheet

Applications

- Hot Swap - DC-DC Conversion

Part Electrical Specifications

Product	Compliance	Status	Topology	Control Mode	f _{sw} Typ (kHz)	Stand-by Mode	UVLO (V)	Short Circuit Protection	Latch	Soft Start	V _{CC} Max (V)	Drive Cap. (mA)	Package Type
CS51221EDR16G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Forward	Voltage Mode	Up to 1000	No	Yes	No	Yes	Yes	15	1000	SOIC-16

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

Created on: 9/23/2019