

Keywords: flyback, continuous conduction mode, CCM, discontinuous conduction mode, DCM, transformer, optoisolated feedback, error amplifier compensation, pi controller, biasing optocoupler, flyback converter, peak current mode controller, MAX17595, MAX17596

APPLICATION NOTE 5504

# Designing Flyback Converters Using Peak-Current-Mode Controllers

By: Srinivasa Rao Meesala  
Nov 27, 2012

*Abstract: Flyback converter design using MAX17595/MAX17596 is outlined. Design methodology and calculations for components value selection are presented. Continuous conduction mode (CCM) and discontinuous conduction mode (DCM) are treated individually.*

## Introduction

This application note describes the methodology of designing flyback converters using the [MAX17595/MAX17596](#) peak-current-mode controllers. Flyback converters may be operated in discontinuous conduction mode (DCM) or continuous conduction mode (CCM). The component choices, stress level in power devices, and controller design vary depending on the operating mode of the converter. Formulas for calculating component values and ratings are also presented.

## DCM Flyback

### Primary Inductance Selection

In a DCM flyback converter, the energy stored in the primary inductance of the flyback transformer is delivered entirely to the output. The maximum primary-inductance value for which the converter remains in DCM at all operating conditions can be calculated as:

$$L_{PRIMAX} \leq \frac{(V_{RMIN} \times D_{MAX})^2 \times 0.4}{(V_{OUT} + V_D) \times I_{OUT} \times F_{SW}} \quad (\text{Eq. 1})$$

Where  $D_{MAX}$  is chosen as 0.43 for the MAX17595/MAX17596,  $V_D$  is the voltage drop of the output rectifier diode on the secondary winding, and  $F_{SW}$  is the switching frequency of the power converter. Choose the primary inductance value to be less than  $L_{PRIMAX}$ .

### Duty Cycle Calculation

The accurate value of the duty cycle ( $D_{NEW}$ ) for the selected primary inductance ( $L_{PR2}$ ) can be

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