

POWER MANAGEMENT

Description

The SC4519H is a current mode switching regulator with an integrated switch, operating at 600kHz with separate sync and enable functions. The integrated switch allows for cost effective low power solutions (peak switch current 3 amps). The sync function allows customers to synchronize to a faster clock in order to avoid frequency beating in noise sensitive applications. High frequency of operation allows for very small passive components. Current mode operation allows for fast dynamic response and instantaneous duty cycle adjustment as the input varies (ideal for CPE applications where the input is a wall plug power).

The low shutdown current makes it ideal for portable applications where battery life is important.

The SC4519H is a 600kHz switching regulator synchronizable to a faster frequency from 750kHz to 1.2MHz.

Features

- ◆ Integrated 3 Amp switch
- ◆ 600kHz frequency of operation
- ◆ Current mode controller
- ◆ Synchronizable to higher frequency up to 1.2MHz
- ◆ Precision enable threshold
- ◆ SO-8 EDP package. Lead free product, fully WEEE and RoHS compliant

Applications

- ◆ XDSL modems
- ◆ CPE equipment
- ◆ DC-DC point of load applications
- ◆ Portable equipment

Typical Application Circuit

