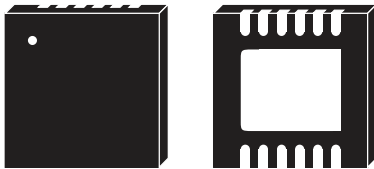


Synchronous rectifier smart driver



DFN12 3x3 mm

Features

- Dual low-side driver for N-Channel MOSFETs
- 4 A sink/source current
- Operating frequency up to 1 MHz
- Predictive ZCS / ZVS control
- High-impedance control
- START input
- DFN12, 3x3 mm package

Application

- High current high performance Step-Down conversion

Description

The **STPRDC01** smart driver implements a control scheme specific to secondary-side synchronous rectification in STVCOT™-based resonant / non-resonant converters.

It provides two high current gate drive outputs, each capable of driving one or more N-channel Low-Side Power MOSFETs. Both gate driver are controlled by the combination of START input and the embedded predictive ZCD/ZVS control assuring the two external power MOSFETs to be switched in zero-voltage / zero-current conditions to achieve high efficiency power conversion.

High-Impedance mode can be configured with the two external Power MOSFETs immediately kept OFF.

The **STPRDC01** is available in DFN12, 3x3 mm package with exposed pad.

Product status	
STPRDC01	
Product summary	
Order code	STPRDC01TR
Package	DFN12
Packing	Tape & Reel

Revision history

Table 1. Document revision history

Date	Version	Changes
02-Mar-2018	1	Initial release.

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