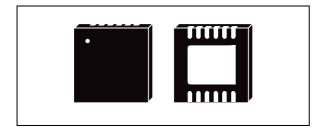


## Synchronous rectifier smart driver

Data brief



#### **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, 3 x 3 mm package

## **Applications**

High current high performance step down conversion

## **Description**

The STRG02 smart driver implements a control scheme specific to secondary-side synchronous rectification in STVCOT ™ based 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 drivers are controlled by the combination of the START input and 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.

The high impedance mode can be configured with the two external power MOSFETs immediately kept OFF.

The STRG02 is available in a DFN12, 3 x 3 mm package with an exposed pad.

**Table 1. Device summary** 

Order code	Package	Packing
STRG02TR	DFN12	Tape and reel

Revision history STRG02

# **Revision history**

Table 2. Document revision history

Date	Revision	Changes
03-Mar-2016	1	Initial release.

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