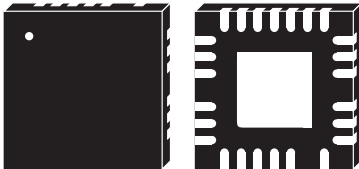


High performance high voltage full-bridge driver



VFQFPN 4x4 mm

Features

- 60 V full-bridge driver for N-Channel MOSFETs
- Adjustable dead-time control
- 2 A sink/source current
- Operating frequency up to 1 MHz
- Enable input
- Programmable overcurrent-protection
- VFQFPN, 4x4 mm package

Application

- High current high performance Step-Down conversion

Description

The **STPRDC02** is a 60 V, high-voltage, full-bridge MOSFET driver IC to implement a control scheme specific to primary-side in STVCOT™-based resonant / non-resonant converters. It provides four high-current gate drive outputs, each capable of driving one or more N-channel Power MOSFETs.

The device features programmable dead-time control to optimize MOSFETs switching and reduce losses in order to optimize the overall efficiency.

Two PWM inputs control the two half-bridge sections independently. EN pin, when low, forces all the gate drive to low regardless of the PWMs status implementing an HiZ.

Overcurrent protection is programmable and senses through a common shunt resistance to be connected in series to the Low-Side power MOSFETs.

The **STPRDC02** is available in VFQFPN, 4x4 mm package with exposed pad.

Product status	
STPRDC02	
Product summary	
Order code	STPRDC02TR
Package	VFQFPN
Packing	Tape & Reel

Revision history

Table 1. Document revision history

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

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