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.
## Revision history

**Table 1. Document revision history**

<table>
<thead>
<tr>
<th>Date</th>
<th>Version</th>
<th>Changes</th>
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<tbody>
<tr>
<td>02-Mar-2018</td>
<td>1</td>
<td>Initial release.</td>
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