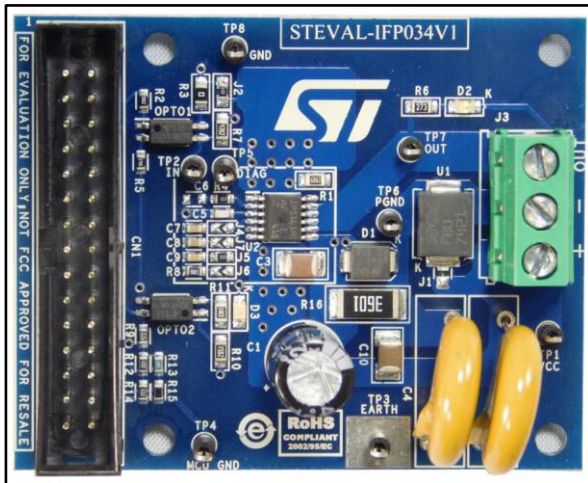


## Single high side driver based on IPS161H

Data brief



### Description

The STEVAL-IFP034V1 evaluation board is designed to analyze the IPS161H device functionality.

It provides galvanic isolation between the user interface and the power interface through optical isolation implemented with optocouplers OPTO1 for forward signals to the device and OPT2 for diagnostic feedback signals.

IEC 61000-4-2, IEC61000-4-4 and IEC 61000-4-5 compliance is achieved by the IPS161H itself and the U1 component (the external TVS between  $V_{CC}$  supply rail and power ground).

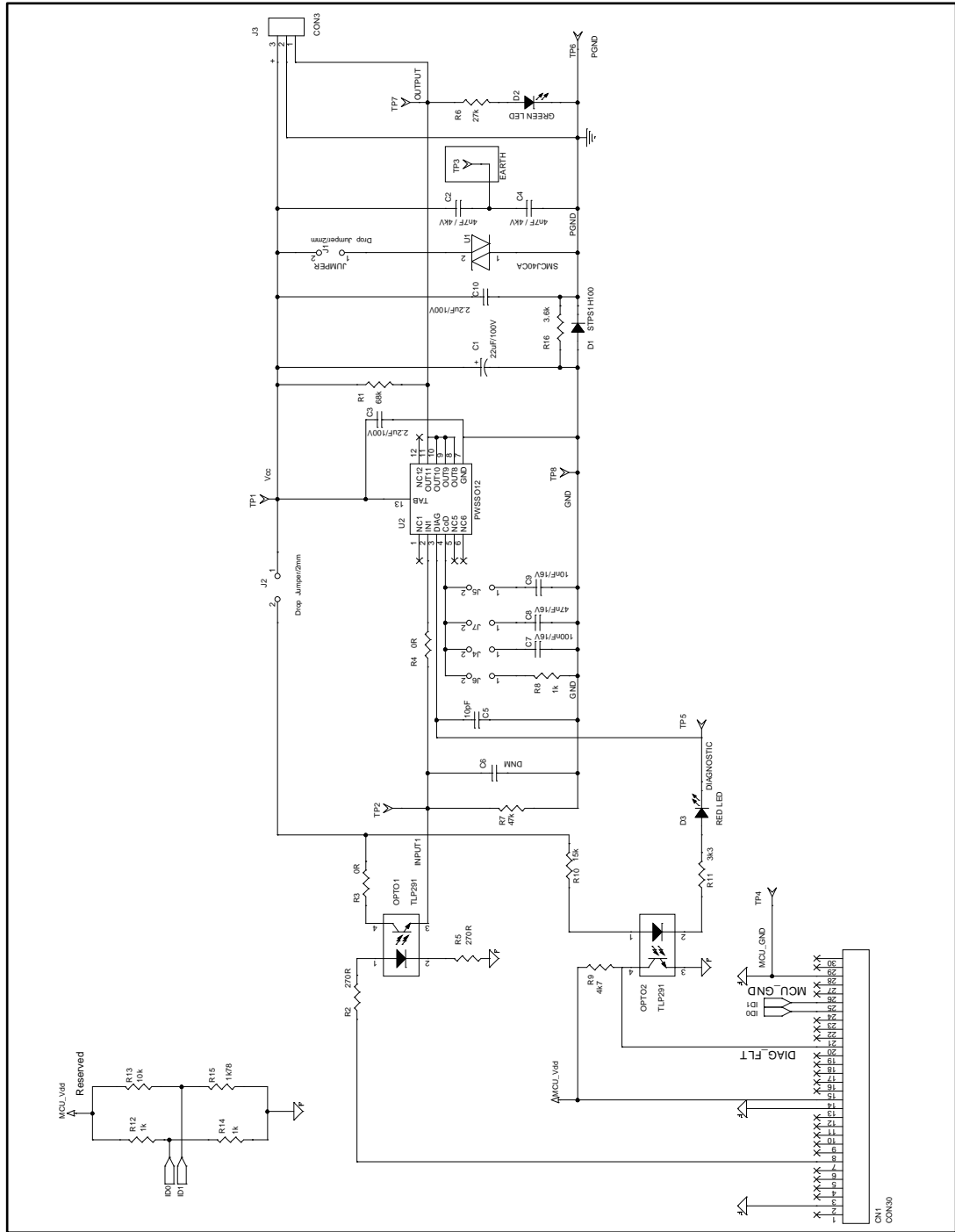
A dedicated GUI interface helps you test IPS161H functionality. To use it, ensure the STEVAL-IFP034V1 is connected via a 30-way flat cable to a STEVAL-PCC009V2, which is connected via USB to the PC running the GUI.

### Features

- Operating voltage range: 8 to 60 V
- Operating current: 0.5 A max
- Programmable cut-off delay time
- Reverse polarity protection
- Galvanic isolation
- Input pins compatible with  $V_{CC}$  rails
- Green LED for channel ON/OFF status
- Red LED for Common Diagnostic on:
  - open load in OFF state
  - cut-off
  - thermal protection
- Microcontroller interface
- Compliant with IEC 61000-4-2, IEC61000-4-4 and IEC 61000-4-5
- RoHS compliant

# 1 Schematic diagram

Figure 1: STEVAL-IFP034V1 circuit schematic



## 2 Revision history

Table 1: Document revision history

Date	Version	Changes
18-Jan-2017	1	Initial release.

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