Demoboard BTS3xxxTF

About this document

Scope and purpose

This document gives a fast introduction to the BTS3xxxTF demoboard.

Intended audience

Engineers, hobbyists and students who want to add powerful Low Side Switches to their projects.

Related information

Table 1 Supplementary links and document references

Reference	Description
HITFET Home Page	Product page which contains reference information for the HITFET+ family

1 Demoboard BTS3xxxTF

Note: The following information is given as a hint for the implementation of the device only and shall not be regarded as a descriptoion or warranty of a certain functionality, condition or quality of the device.

Basic Features of this Demoboard

- RoHS compliant
- Driving one 12V resistive, capacitive or inductive load
- Additional equipment needed: 1x 12V power supply, 1x 5V signal generator

Description of how to use the Demoboard

This description is intended to give a fast introduction to the BTS3xxxTF demoboard. The demoboard gives the user a quick start for lab evaluation of the BTS3xxxTF. Stand-alone operation is possible.

The BTS3xxxTF demoboard (PCB size: 50 x 60 mm²) has 2 layers (70µm copper). It is equipped with one sample of BTS3035TF, BTS3050TF, BTS3080TF, or BTS3125TF. ***Figure 1*** gives an overview of the demoboard. ***Table 2*** provides a description of major parts of the demoboard. The schematic and an example for external connection are given in ***Figure 2***.

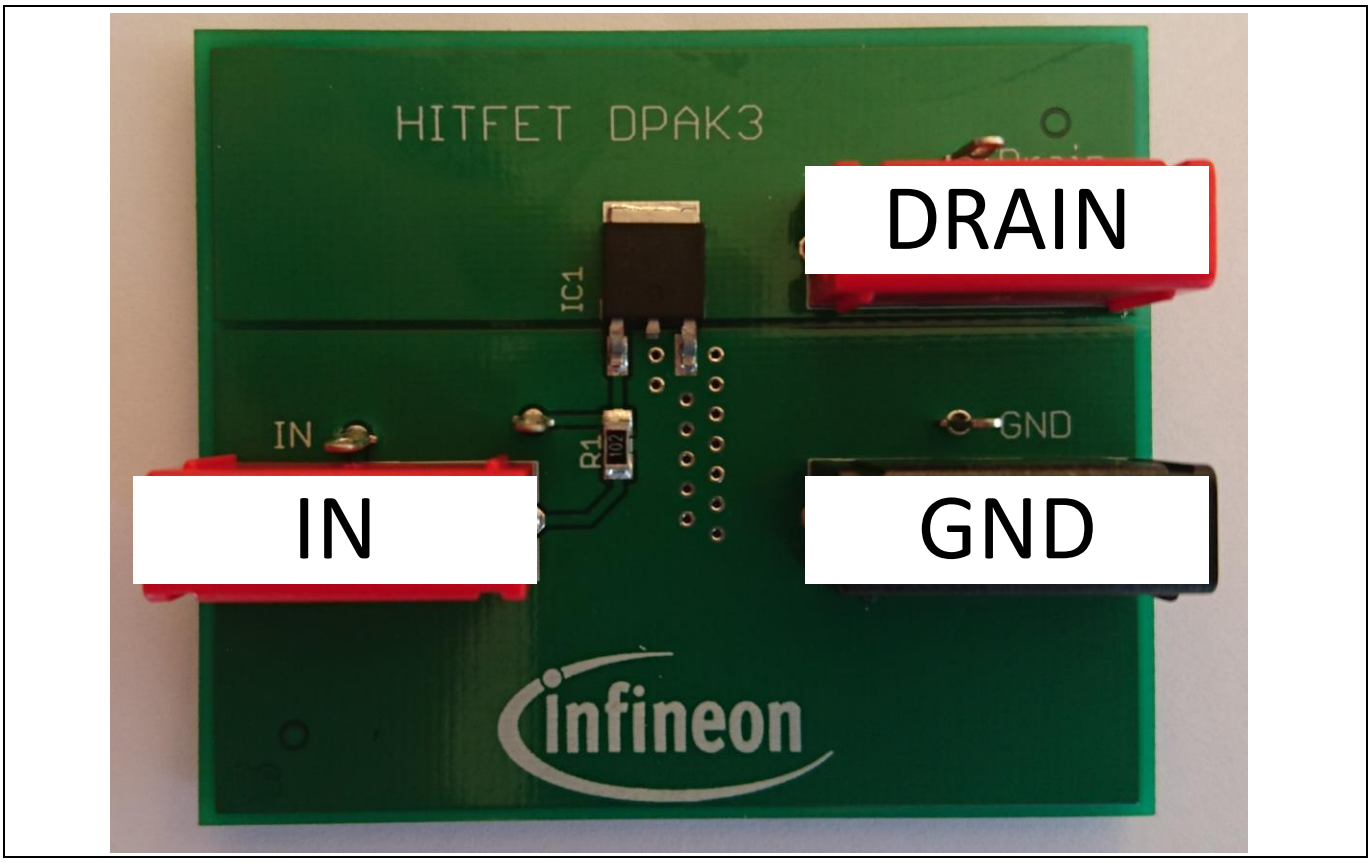

Figure 1 ***Board Overview***

Demoboard BTS3xxxTF

Table 2 Part Description

Name	Description
IN	Input signal; TTL logic level (5V recommended)
DRAIN	Output/Load; refers to the OUT pin of the device. Load to battery supply line. For inductive loads check energy capabilities in the device datasheet
GND	Ground; connect all grounds to this pin

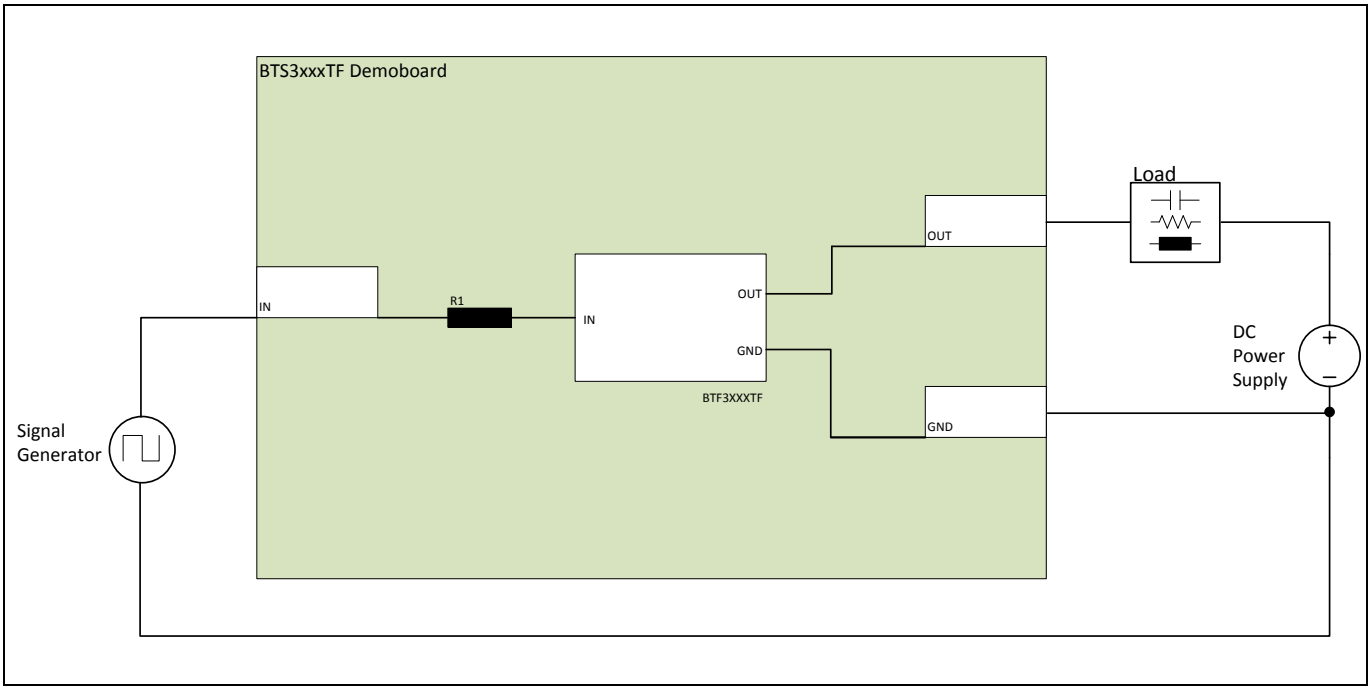

Figure 2 *Demoboard Setup*

Note: Figure 2 shows the demoboard schematics and a very simplified application example. The function in real applications must be verified to not exceed the limits of the device nor the demoboard and its components.

Attention: Revision History

Major changes since the last revision

Page or Reference	Description of change
V1.0	Release of Demoboard Description

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Document reference
Demoboard Description

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