

## 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
<a href="#">HITFET Home Page</a>	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 description 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 mm<sup>2</sup>) 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**.

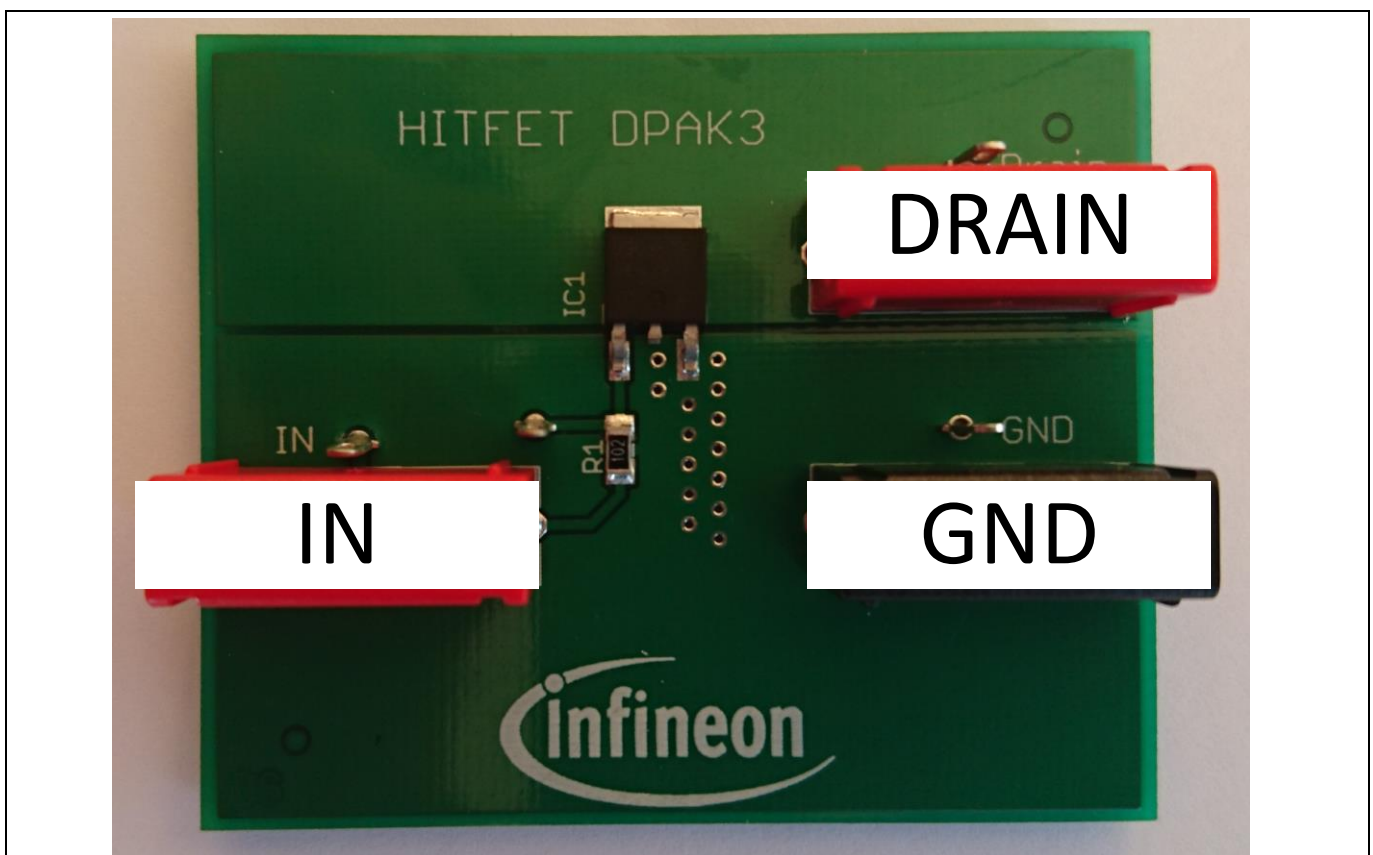
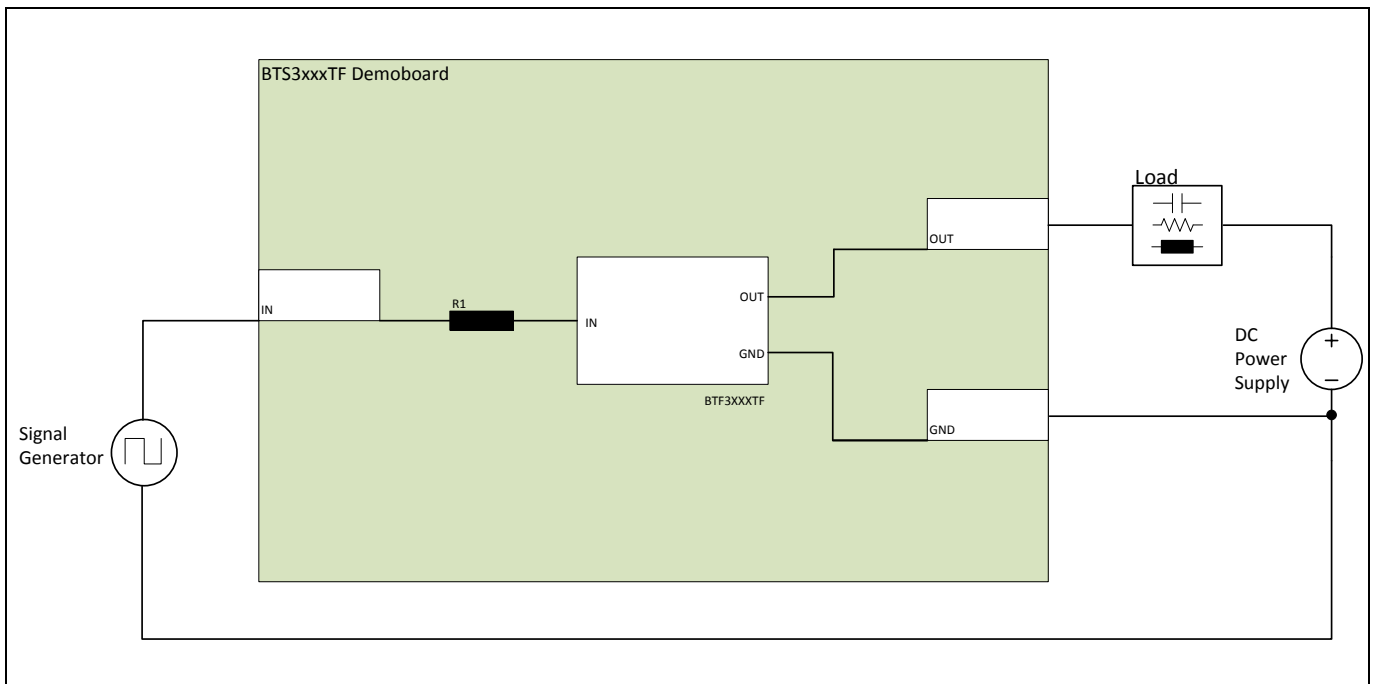


Figure 1 Board Overview

**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**

<b>Page or Reference</b>	<b>Description of change</b>
V1.0	Release of Demoboard Description

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**Do you have a question about this document?**

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**Document reference  
Demoboard Description**

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