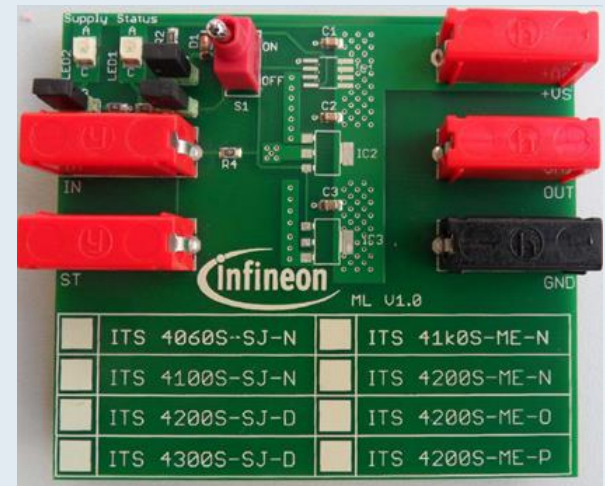


Industrial PROFET™

Universal Application Board User's Manual



Industrial PROFET™ Universal Application Board

- The Industrial PROFET™ demo board can be used to easily evaluate a wide range of single channel industrial protected high side switches in both PG-SOT-223-4 package as well as the PG-DSO-8 package.
- The demo board comes equipped with external components as well as samples for the devices that can be tested using this universal evaluation board.
- The industrial protected high side switches that can be evaluated using this universal application board are as follows :



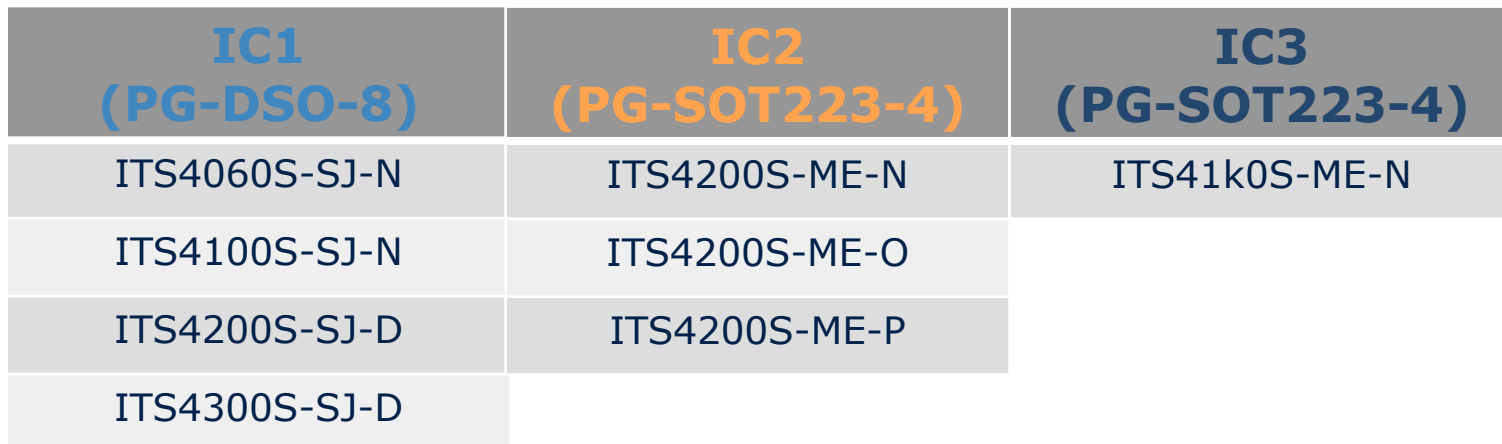
PG-DSO-8

ITS4060S-SJ-N
ITS4100S-SJ-N
ITS4200S-SJ-D
ITS4300S-SJ-D

ITS41k0S-ME-N
ITS4200S-ME-N
ITS4200S-ME-O
ITS4200S-ME-P



PG-SOT223-4

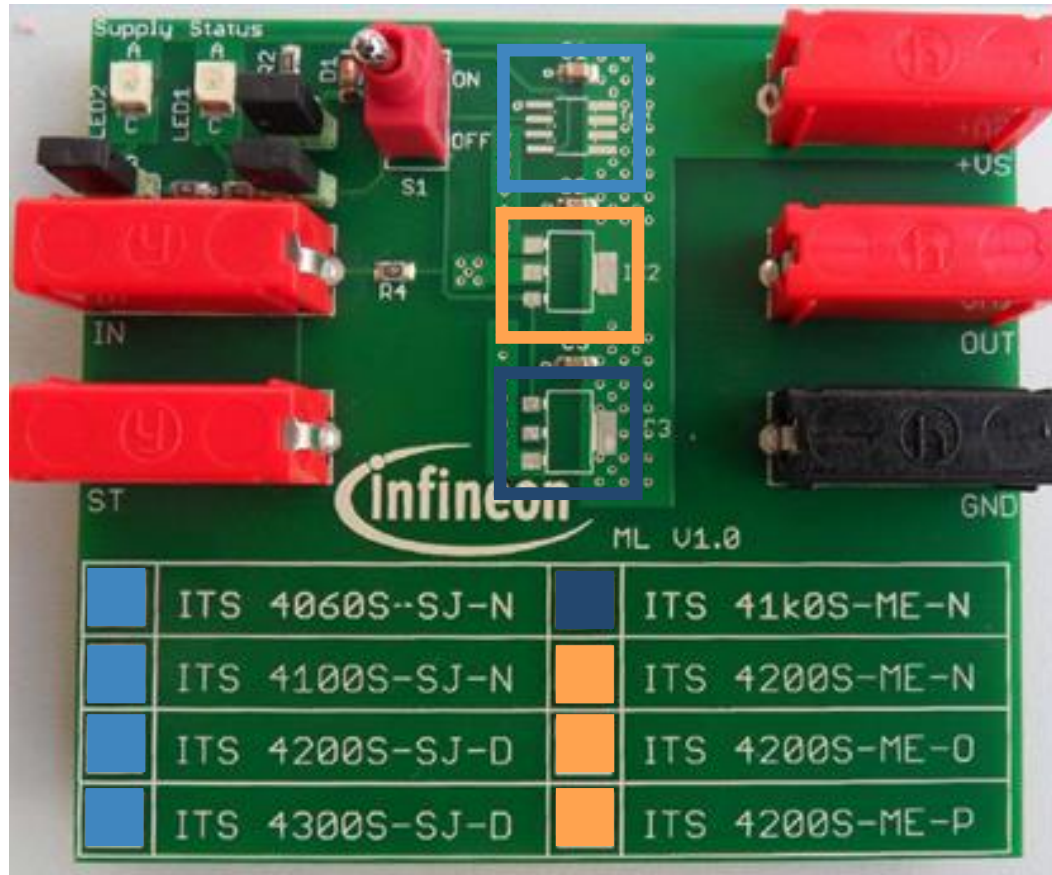


Device Details and Ordering Information

Device Name	Demo Board Placement	Sample SP Number	$R_{DS(on)}$ (Max.) mΩ	Nominal Load Current (A)	Current Limit (A)	Package
ITS4060S-SJ-N	IC1	SP001007686	120	3.1	10.0	PG-DSO-8
ITS4100S-SJ-N	IC1	SP001007688	200	2.4	17.0	PG-DSO-8
ITS4200S-SJ-D	IC1	SP001007698	350	1.2	6.5	PG-DSO-8
ITS4300S-SJ-D	IC1	SP001006698	480	0.4	1.2	PG-DSO-8
ITS4200S-ME-N	IC2	SP001007692	400	0.7	1.5	PG-SOT223-4
ITS4200S-ME-O	IC2	SP001007694	320	0.7	3.0	PG-SOT223-4
ITS4200S-ME-P	IC2	SP001007696	320	1.4	3.0	PG-SOT223-4
ITS41k0S-ME-N	IC3	SP001006700	3000	0.2	0.9	PG-SOT223-4

Industrial PROFET™ Universal Application Board
SP # : SP001045762

Industrial PROFET™ Universal Application Board



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Universal Application Board (Set Up)

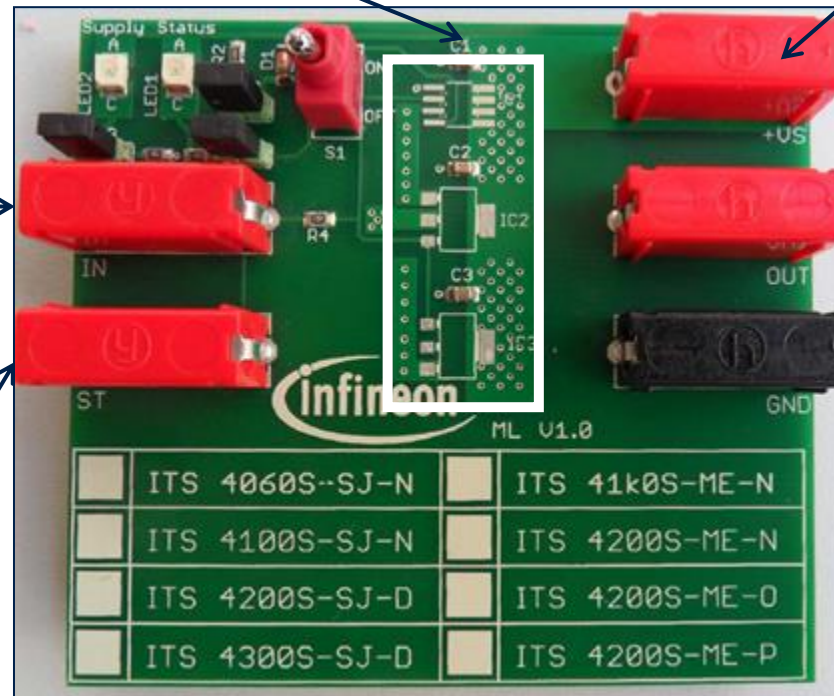


Solder IC to be tested either at
IC1, IC2 or IC3
Please refer to list on Page 3.

Connect Supply
Voltage at +VS,
Connect Jumper
JP3 for indication
of supply voltage.
LED2 (Green)
turns ON when a
supply voltage is
available on
board.

Connect Voltage for
gate control at IN,
e.g. Output from a
microcontroller
For more details on
input threshold
levels, please refer
to the datasheet of
the device under
test on the Infineon
website.

Diagnosis status
feedback for
ITS4200S-SJ-D and
ITS4300S-SJ-D can
be read out via ST.
ST goes Low in case
of a fault condition.
Connect Jumper
JP1. LED1 turns ON
during a fault
condition.

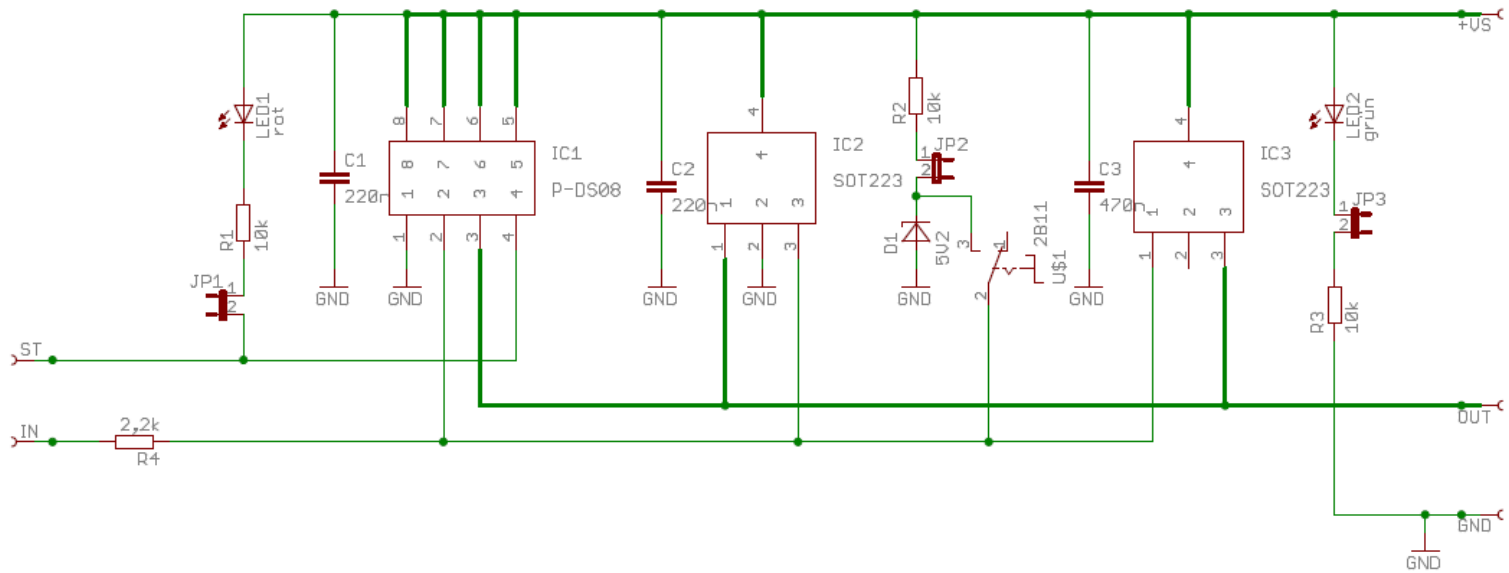


Voltage for gate control at IN could be provided
externally via IN or by connecting the +VS to the
IN line via Jumper JP2 and switch S1. If an
external voltage is provided at banana plug 'IN',
JP2 should be left open.

Connect to GND

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Universal Application Board Schematic



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Universal Application Board Layout

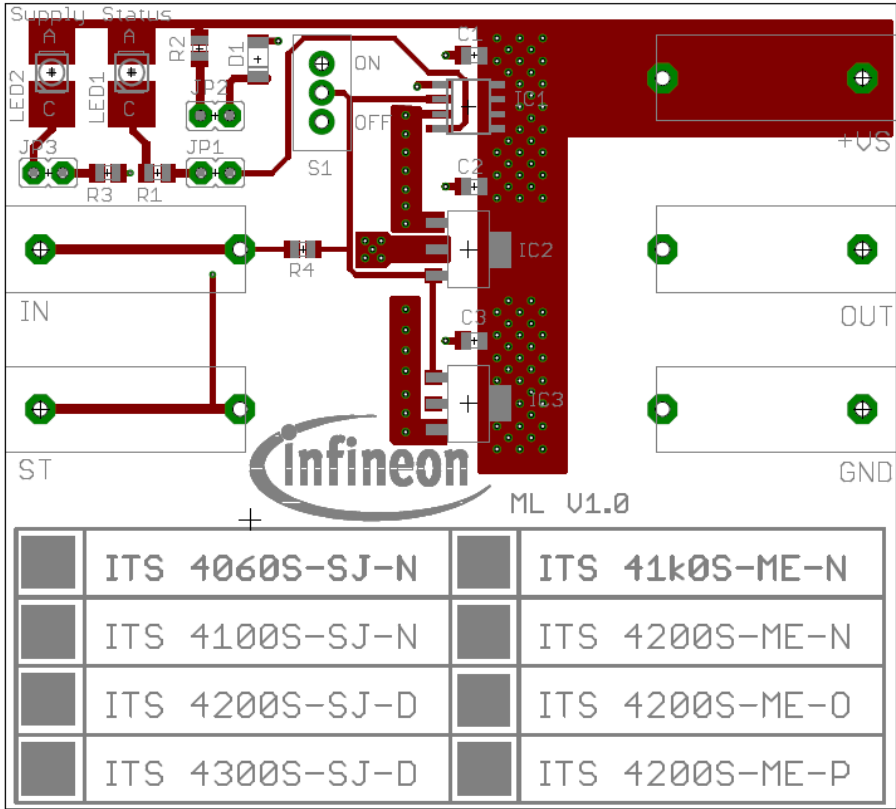


Figure 1. Top View

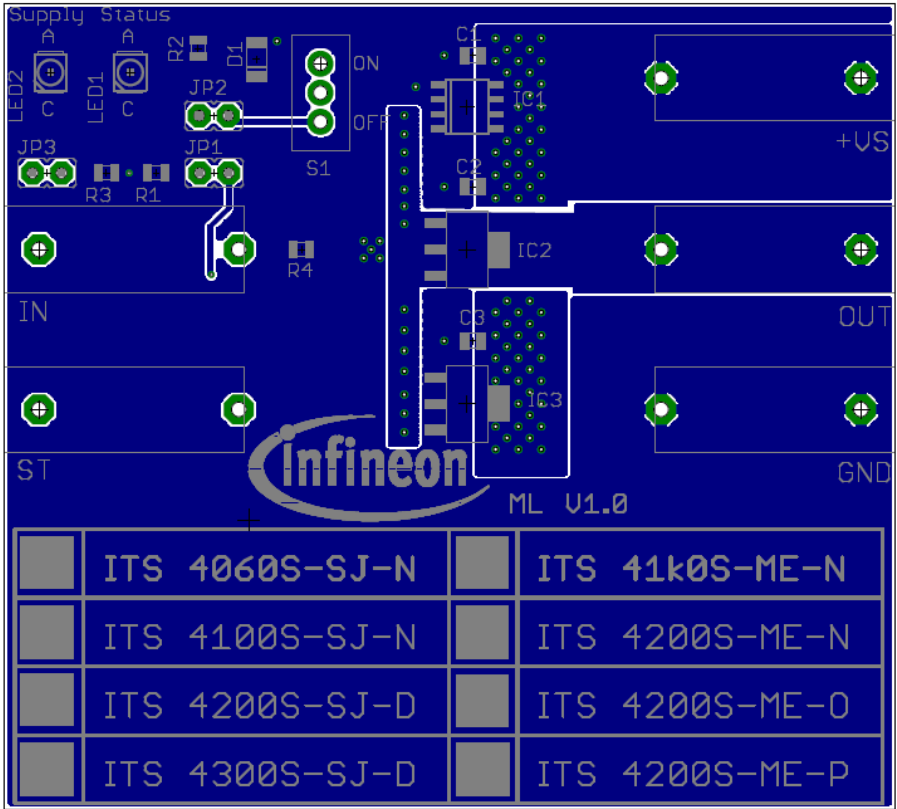


Figure 2. Bottom View

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