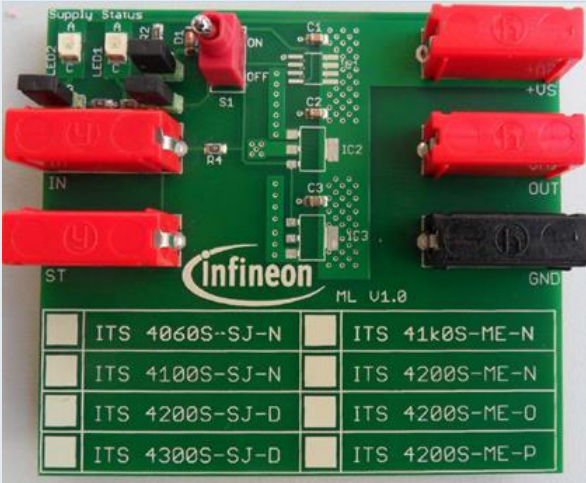


# Industrial PROFET™

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**

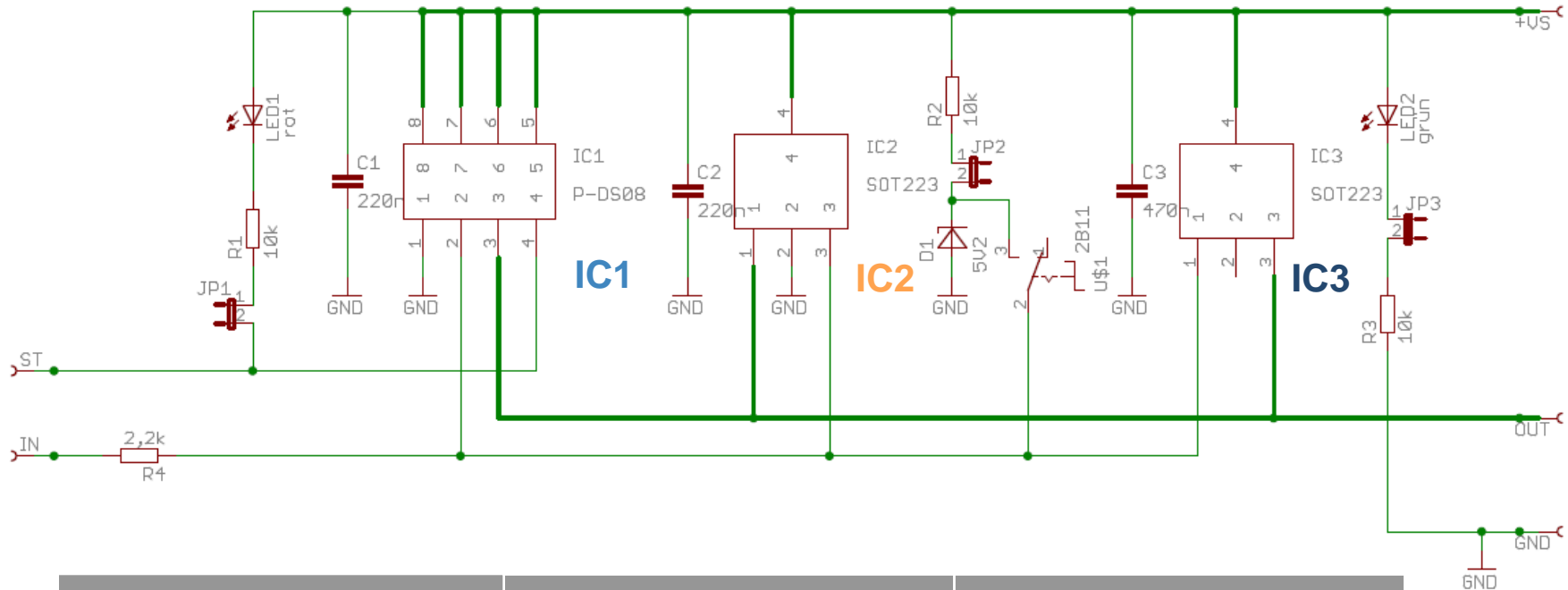
ITS4060S-SJ-N  
ITS4100S-SJ-N  
ITS4200S-SJ-D  
ITS4300S-SJ-D

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



**PG-SOT223-4**

# Device Details and Ordering Information



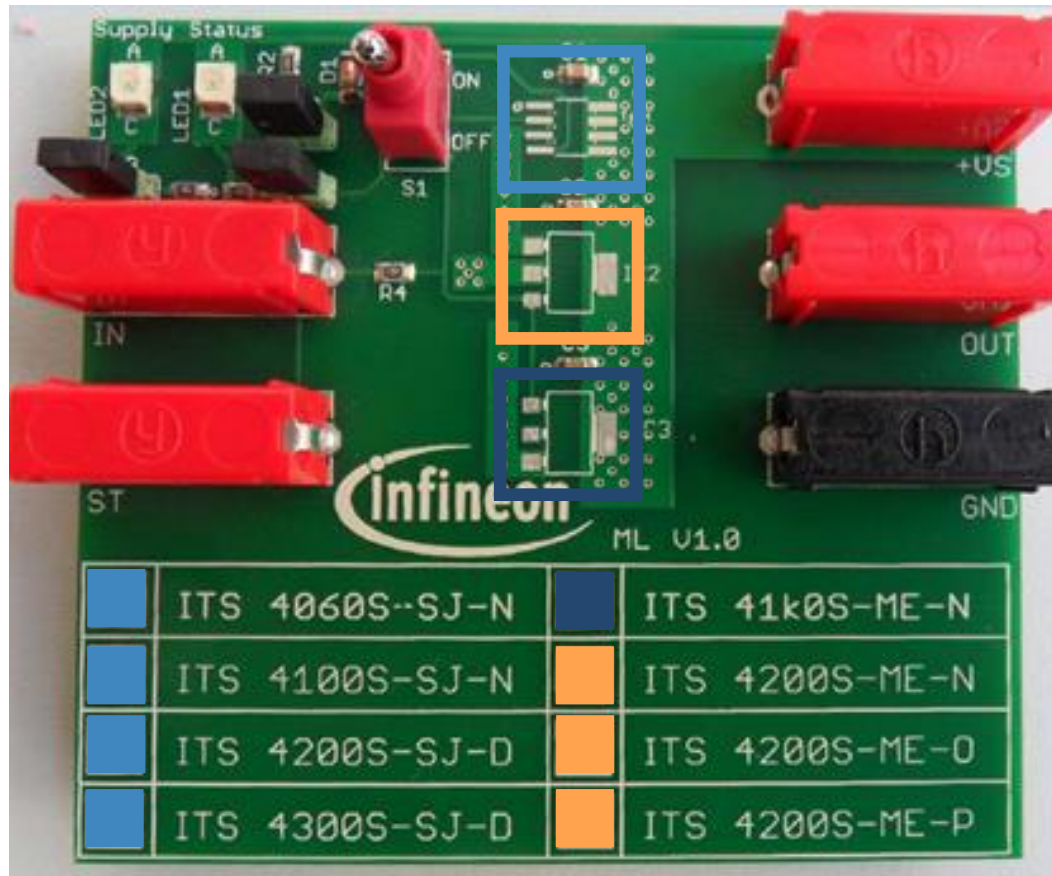
<b>IC1 (PG-DSO-8)</b>	<b>IC2 (PG-SOT223-4)</b>	<b>IC3 (PG-SOT223-4)</b>
ITS4060S-SJ-N	ITS4200S-ME-N	ITS41k0S-ME-N
ITS4100S-SJ-N	ITS4200S-ME-O	
ITS4200S-SJ-D	ITS4200S-ME-P	
ITS4300S-SJ-D		

# Device Details and Ordering Information

Device Name	Demo Board Placement	Sample SP Number	$R_{DS(on)}$ (Max.) m $\Omega$	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



# Industrial PROFET™ Universal Application Board (Set Up)

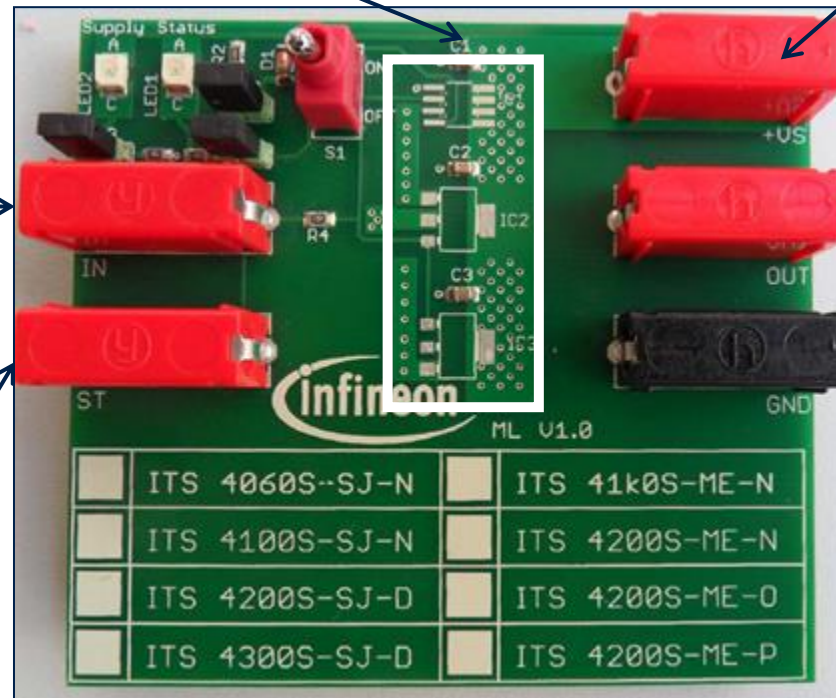


Solder IC to be tested either at IC1, IC2 or IC3  
Please refer to list on Page 3.

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.

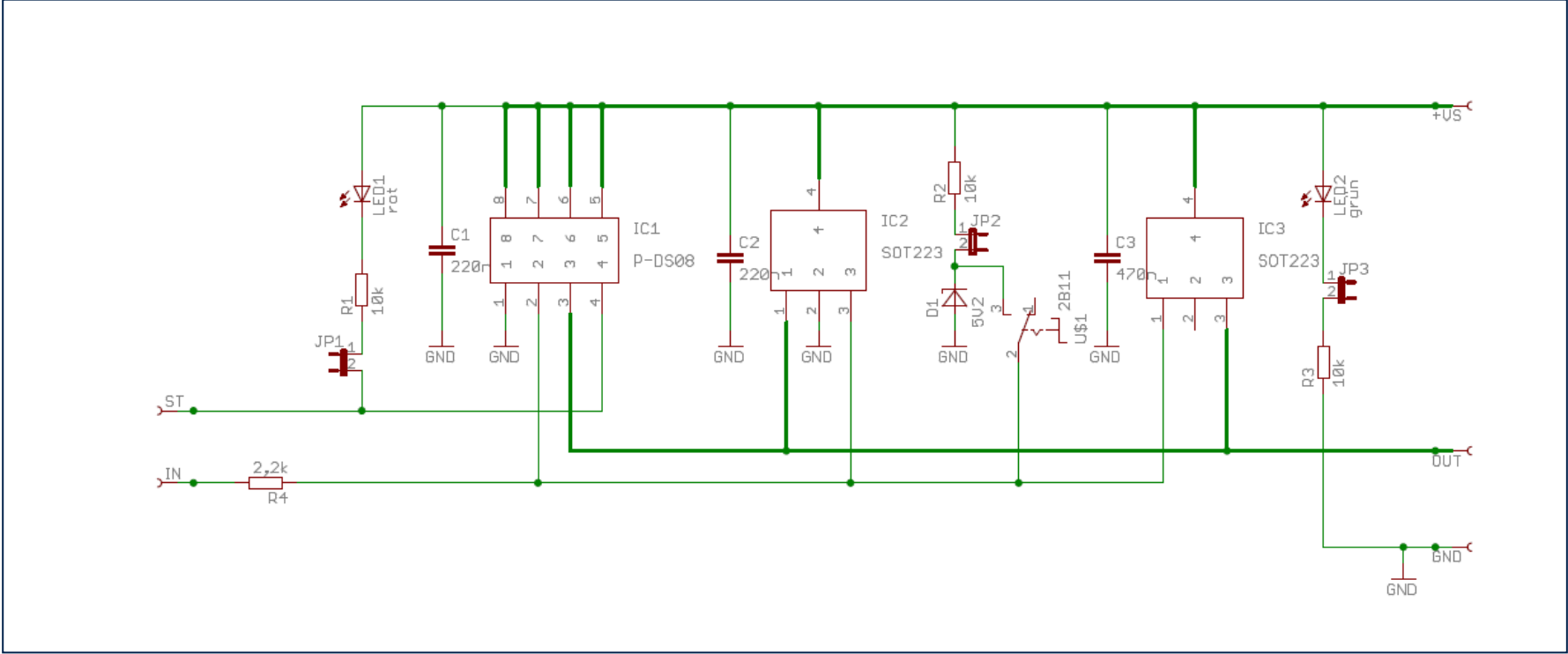
Diagnosis status feedback for ITS4200S-SJ-D and ITS4300S-SJ-D can be read out via ST. ST goes Low in case of a fault condition. Connect Jumper JP1. LED1 turns ON during a fault condition.



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

# Industrial PROFET™ Universal Application Board Schematic



# Industrial PROFET™ Universal Application Board Layout

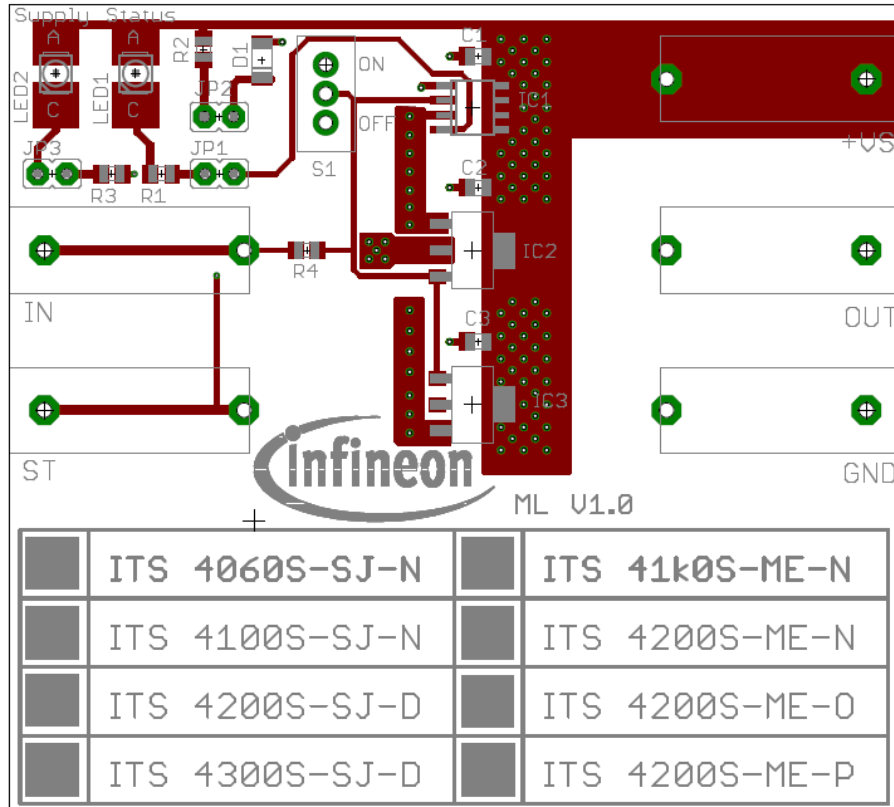


Figure 1. Top View

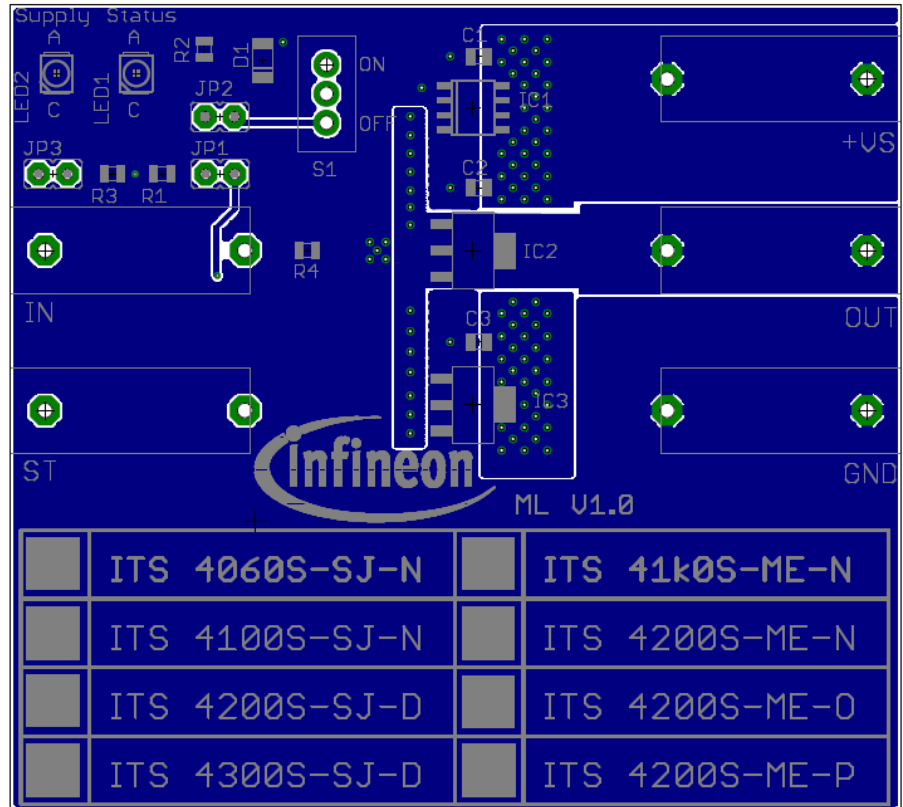


Figure 2. Bottom View



# Disclaimer

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