

IRS2136DSTRPBF

600 V three-phase gate driver with Over Current Protection (OCP), Enable (EN), Fault and Integrated Bootstrap Diode (BSD)

Features

- Maximum blocking voltage +600 V
- Output source/sink current +0.165 A / -0.375 A
- Integrated ultra-fast, low $R_{DS(ON)}$ Bootstrap Diode
- Separate control circuits for all six drivers
- Detection of over current and under voltage supply
- Externally programmable delay for fault clear after over current detection
- 'Shut down' of all switches during error conditions
- CMOS and LSTTL compatible input (negative logic)
- Signal interlocking of every phase to prevent cross-conduction

Product summary

V_{OFFSET}	= 620 V max.
$I_{O+/-}$ (typ.)	= +0.165 A / -0.375 A
t_{on} / t_{off}	= 530 ns / 490 ns
t_f / t_r (typ. $C_L=1$ nF)	= 60 ns / 26 ns

Package

DSO-28



Potential applications

- Home appliance, refrigeration compressors, air-conditioning
- Fans, pumps
- Motor drives, general purpose inverters
- Power tools, light electric vehicles

Product validation

Qualified for industrial applications according to the relevant tests of JEDEC47/20/22.

Description

The device IRS2136DSTRPBF is a full bridge driver to control power devices like MOS-transistors or IGBTs in 3-phase systems with a maximum blocking voltage of +600 V.

The six independent drivers are controlled at the low-side using CMOS resp. LSTTL compatible signals, down to 3.3 V logic. The device includes an under-voltage detection unit with hysteresis characteristic and an over-current detection. The over-current level is adjusted by choosing the resistor value and the threshold level at pin ITRIP. Both error conditions (under-voltage and over-current) lead to a definite shut down off all six switches. An error signal is provided at the FAULT open drain output pin. The blocking time after over-current can be adjusted with an RC-network at pin RCIN. The input RCIN owns an internal current source of 2.8 μ A. Therefore, the resistor RRCIN is optional. The typical output current can be given with 165 mA for pull-up and 375 mA for pull down. Because of system safety reasons a 310 ns interlocking time has been realised. The function of input EN can optionally be extended with over-temperature detection, using an external NTC-resistor (see Figure 1). The monolithic integrated bootstrap diode structures between pins VCC and VBx can be used for power supply of the high side.

IRS2136DSTRPBF

600 V three-phase driver with OCP, Enable, Fault and Bootstrap Diode

Ordering information

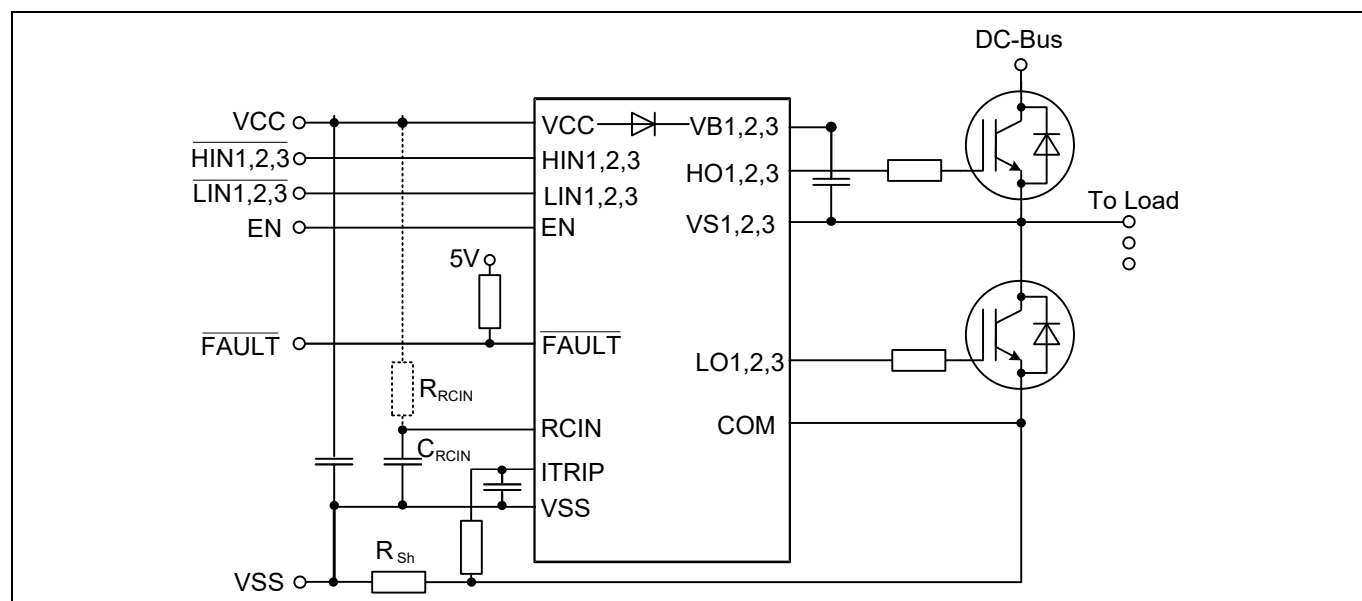


Figure 1 Typical application diagram

Ordering information

Sales Name	High side control input HIN1,2,3 and LIN1,2,3	Target transistor	Typ. UVLO- Thresholds	Bootstrap diode	Package
IRS2136DSTRPBF	negative logic	IGBT	11.7 V / 9.8 V	Yes	DSO-28

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1 Block diagram

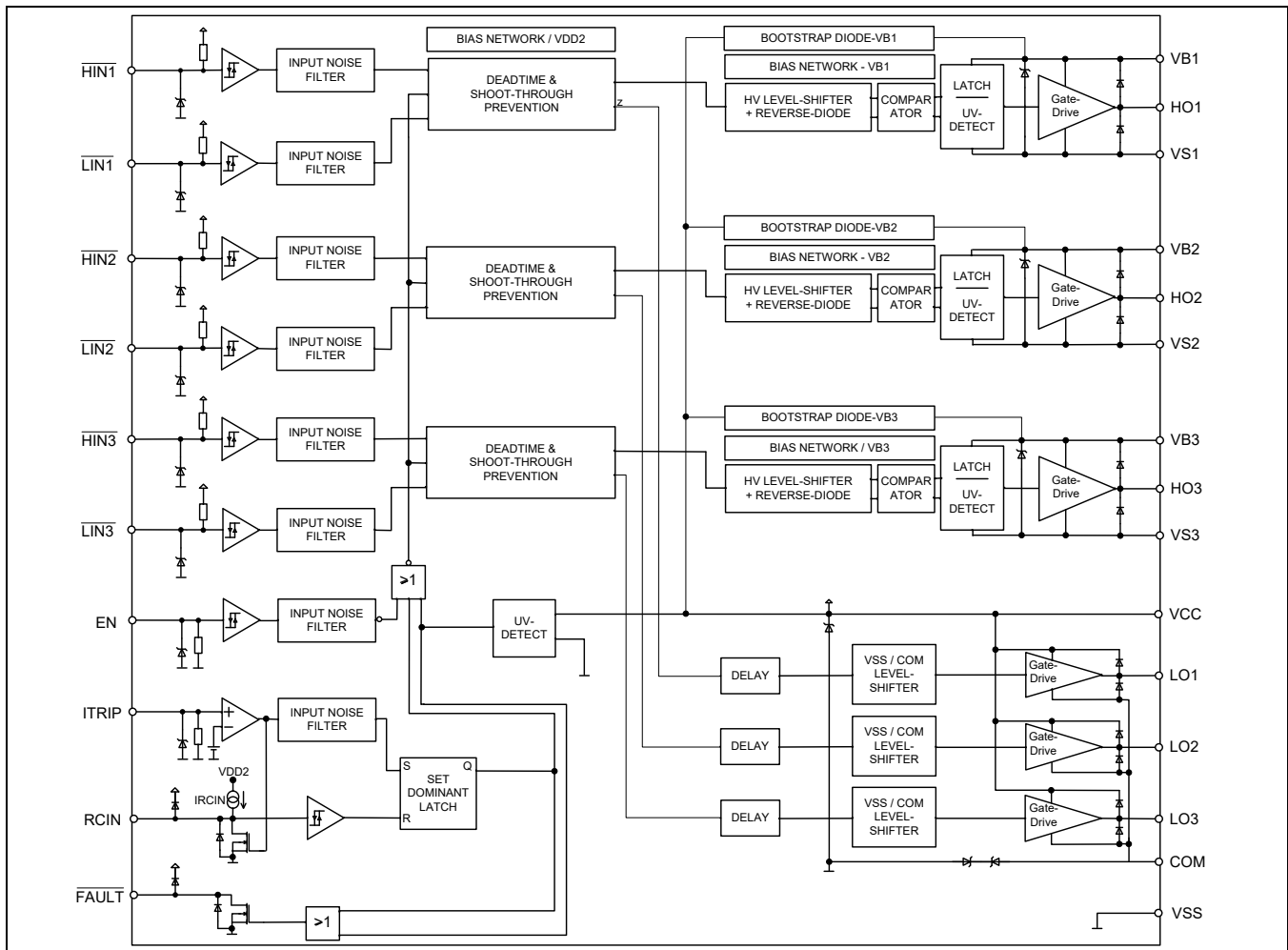


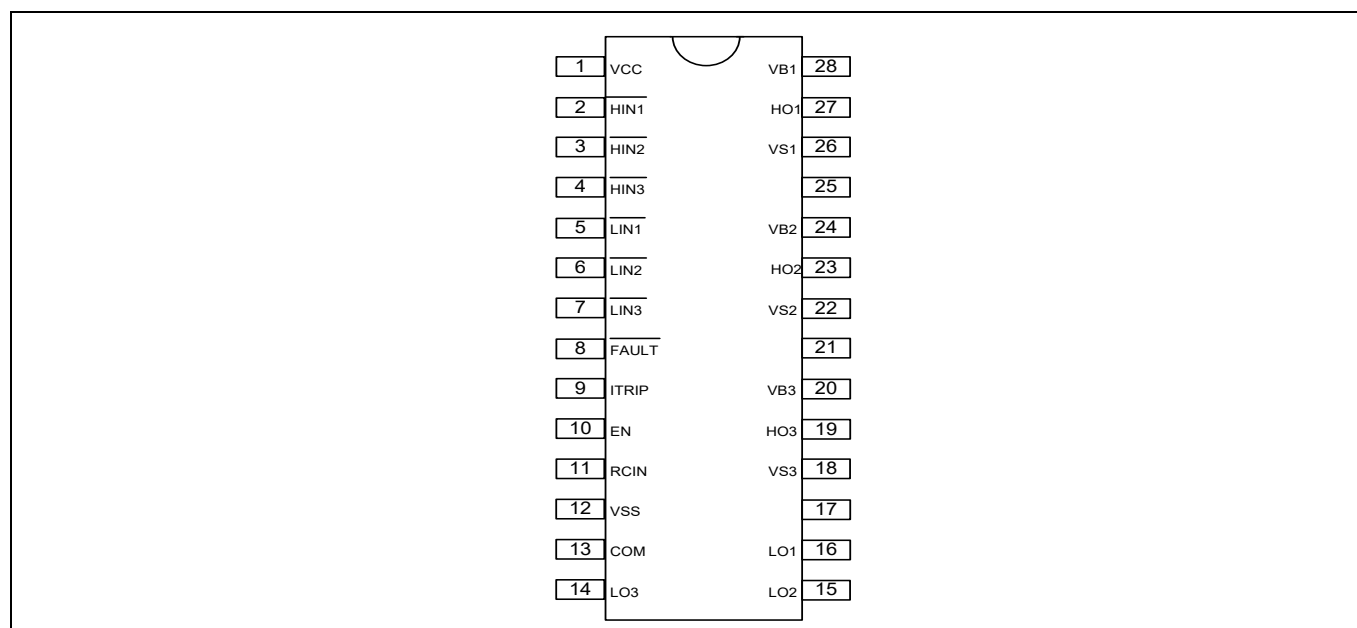
Figure 2 Functional block diagram for IRS2136DSTRPBF

Lead definitions

2 Lead definitions

Table 1 IRS2136DSTRPBF family lead definitions

Pin no.	Name	Function
1	VCC	Low side power supply
2,3,4	/HIN1,2,3	High side negative logic input
5,6,7	/LIN1,2,3	Low side negative logic input
8	/FAULT	Indicates over-current and under-voltage (negative logic, open-drain output)
9	ITRIP	Analog input for over-current shut down, activates FAULT and RCIN to VSS
10	EN	Enable I/O functionality (positive logic)
11	RCIN	External RC-network to define FAULT clear delay after FAULT-Signal (T_{FLTCLR})
12	VSS	Logic ground
13	COM	Low side gate driver reference
28,24,20	VB1,2,3	High side positive power supply
27,23,19	HO1,2,3	High side gate driver output
26,22,18	VS1,2,3	High side negative power supply
16,15,14	LO1,2,3	Low side gate driver output
21,25	nc	Not connected


Figure 3 Pin Configuration of IRS2136DSTRPBF

3 Functional description

3.1 Low Side and High Side Control Pins (Pin 2, 3, 4, 5, 6, 7)

The Schmitt trigger input threshold of them is such to guarantee LSTTL and CMOS compatibility down to 3.3 V controller outputs. Input Schmitt trigger and noise filter provide beneficial noise rejection to short input pulses according to Figure 4 and Figure 5.

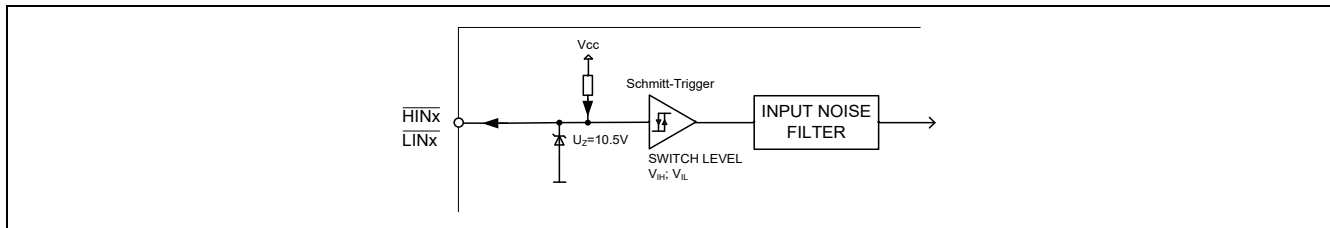


Figure 4 Input pin structure for negative logic

An internal pull-up of about 75 k Ω pre-biases the input during supply start-up and a ESD zener clamp is provided for pin protection purposes. The zener diodes are therefore designed for single pulse stress only and not for continuous voltage stress over 10V. For versions with positive, a 5 k Ω pull-down resistor is used for this function.

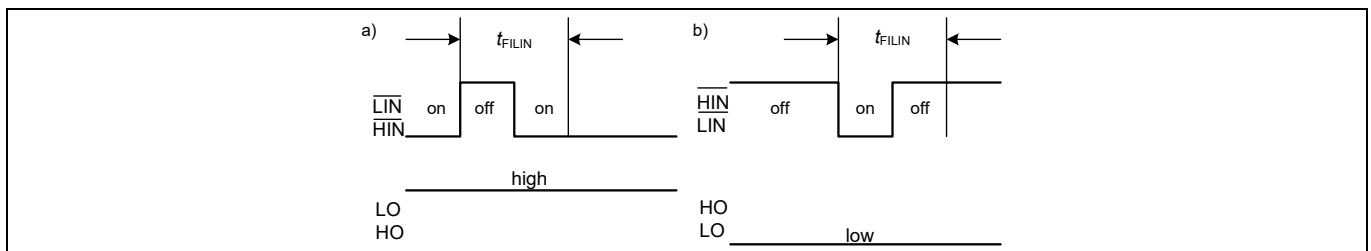


Figure 5 Input filter timing diagram for negative logic

It is anyway recommended for proper work of the driver not to provide input pulse-width lower than 1 μ s.

IRS2136DSTRPBF provides additionally a shoot through prevention capability which avoids the simultaneous on-state of two channels of the same leg (i.e. HO1 and LO1, HO2 and LO2, HO3 and LO3). When two inputs of a same leg are activated, only one leg output is activated, so that the leg is kept steadily in a safe state.

A minimum dead time insertion of typ. 310 ns is also provided, in order to reduce cross-conduction of the external power switches.

3.2 EN (Gate Driver Enable, Pin 10)

The signal applied to pin EN controls directly the output stages. All outputs are set to LOW, if EN is at LOW logic level. The internal structure of the pin is given in Figure 6. The switching levels of the Schmitt-Trigger are here $V_{EN,TH+} = 2.1$ V and $V_{EN,TH-} = 1.3$ V. The typical propagation delay time is $t_{EN} = 780$ ns. There is an internal pull down resistor (75 k Ω), which keeps the gate outputs off in case of broken PCB connection.

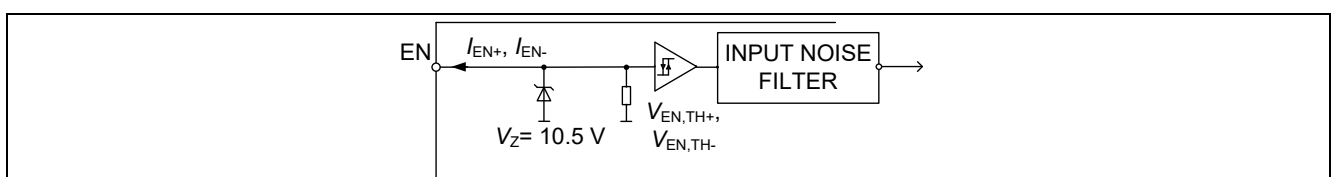


Figure 6 EN pin structures

Functional description

3.3 /FAULT (Fault Feedback, Pin 8)

/Fault pin is an active low open-drain output indicating the status of the gate driver (see Figure 7). The pin is active (i.e. forces LOW voltage level) when one of the following conditions occur:

- Under-voltage condition of VCC supply: In this case the fault condition is released as soon as the supply voltage condition returns in the normal operation range (please refer to VCC pin description for more details).
- Over-current detection (ITRIP): The fault condition is latched until current trip condition is finished and RCIN input is released (please refer to ITRIP pin).

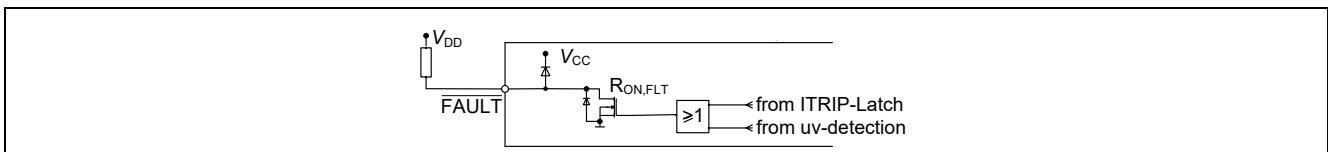


Figure 7 /FAULT pin structures

3.4 ITRIP and RCIN (Over-Current Detection Function, Pin 9, 11)

IRS2136DSTRPBF provides an over-current detection function by connecting the ITRIP input with the motor current feedback. The ITRIP comparator threshold (typ 0.44 V) is referenced to VSS ground. An input noise filter (typ. $t_{ITRIPMIN} = 230$ ns) prevents the driver to detect false over-current events.

Over-current detection generates a hard shut down of all outputs of the gate driver and provides a latched fault feedback at /FAULT pin. RCIN input/output pin is used to determine the reset time of the fault condition. As soon as ITRIP threshold is exceeded the external capacitor connected to RCIN is fully discharged. The capacitor is then recharged by the RCIN current generator when the over-current condition is finished. As soon as RCIN voltage exceeds the rising threshold of typ $V_{RCIN,TH} = 5.2$ V, the fault condition releases and the driver returns operational following the control input pins according to Section 3.1.

3.5 VCC, VSS and COM (Low Side Supply, Pin 1, 12, 13)

VCC is the low side supply and it provides power both to input logic and to low side output power stage. Input logic is referenced to VSS ground as well as the under-voltage detection circuit. Output power stage is referenced to COM ground. COM ground is floating respect to VSS ground with a maximum range of operation of ± 5.7 V. A back-to-back zener structure protects grounds from noise spikes.

The under-voltage circuit enables the device to operate at power on when a typical supply voltage higher than V_{CCUV+} is present.

The IC shuts down all the gate drivers power outputs, when the VCC supply voltage is below $V_{CCUV-} = 9.8$ V respectively 8.1 V. This prevents the external power switches from critically low gate voltage levels during on-state and therefore from excessive power dissipation.

3.6 VB1, 2, 3 and VS1, 2, 3 (High Side Supplies, Pin 18, 20, 22, 24, 26, 28)

VB to VS is the high side supply voltage. The high side circuit can float with respect to VSS following the external high side power device emitter/source voltage. Due to the low power consumption, the floating driver stage can be supplied by bootstrap topology connected to VCC.

The device operating area as a function of the supply voltage is given in Figure 12.

3.7 LO1,2,3 and HO1,2,3 (Low and High Side Outputs, Pin 14, 15, 16, 19, 23, 27)

Low side and high side power outputs are specifically designed for pulse operation such as gate drive of IGBT and MOSFET devices. Low side outputs (i.e. LO1,2,3) are state triggered by the respective inputs, while high side outputs (i.e. HO1,2,3) are edge triggered by the respective inputs. In particular, after an under voltage condition of the VBS supply, a new turn-on signal (edge) is necessary to activate the respective high side output, while after a under voltage condition of the VCC supply, the low side outputs switch to the state of their respective inputs.

Electrical parameters

4 Electrical parameters

4.1 Absolute maximum ratings

All voltages are absolute voltages referenced to V_{SS} -potential unless otherwise specified. All parameters are valid for $T_a=25\text{ }^{\circ}\text{C}$.

Table 2 Absolute maximum ratings

Parameter	Symbol	Min.	Max.	Unit
High side offset voltage ¹	V_S	$V_{CC}-V_{BS}-6$	600	V
High side offset voltage ¹	V_B	$V_{CC}-6$	620	
High side floating supply voltage (V_B vs. V_S) (internally clamped)	V_{BS}	-0.5	20	
High side output voltage (V_{HO} vs. V_S)	V_{HO}	-0.5	$V_B + 0.5$	
Low side supply voltage (internally clamped)	V_{CC}	-0.5	20	
Low side supply voltage (V_{CC} vs. V_{COM})	V_{CCOM}	-0.5	25	
Gate driver ground	V_{COM}	-5.7	5.7	
Low side output voltage (V_{LO} vs. V_{COM})	V_{LO}	-0.5	$V_{CCOM} + 0.5$	
Input voltage LIN,HIN,EN,ITRIP	V_{IN}	-0.5	10	
FAULT output voltage	V_{FLT}	-0.5	$V_{CC} + 0.5$	
RCIN output voltage	V_{RCIN}	-0.5	$V_{CC} + 0.5$	W
Power dissipation (to package) ²	P_D	–	1.3	
Thermal resistance (junction to ambient, see section 6)	$R_{th(j-a)}$	–	75	K/W
Junction temperature	T_J	–	125	
Storage temperature	T_S	- 40	150	
Offset voltage slew rate ³	dV_S/dt		50	V/ns

¹ In case $V_{CC} > V_B$ there is an additional power dissipation in the internal bootstrap diode between pins VCC and VBx.

² Consistent power dissipation of all outputs. All parameters inside operating range.

³ Not subject of production test, verified by characterisation

Electrical parameters

4.2 Required operation conditions

All voltages are absolute voltages referenced to V_{SS} -potential unless otherwise specified. All parameters are valid for $T_a=25\text{ }^{\circ}\text{C}$.

Table 3 Required Operation Conditions

Parameter	Symbol	Min.	Max.	Unit
High side offset voltage ¹	V_B	7	620	V
Low side supply voltage (V_{CC} vs. V_{COM})	V_{CCOM}	10	25	

4.3 Operating Range

All voltages are absolute voltages referenced to V_{SS} -potential unless otherwise specified. All parameters are valid for $T_a=25\text{ }^{\circ}\text{C}$.

Table 4 Operating range

Parameter	Symbol	Min.	Max.	Unit
High side floating supply offset voltage	V_S	$V_{CC} - V_{BS} - 1$	500	V
High side floating supply offset voltage (V_B vs. V_{CC} , statically)	V_{BCC}	-1	500	
High side floating supply voltage (V_B vs. V_S) ¹	V_{BS}	13	17.5	
High side output voltage (V_{HO} vs. V_S)	V_{HO}	0	V_{BS}	
Low side output voltage (V_{LO} vs. V_{COM})	V_{LO}	0	V_{CC}	
Low side supply voltage	V_{CC}	13	17.5	
Low side ground voltage	V_{COM}	-2.5	2.5	
Logic input voltages LIN, HIN, EN, ITRIP ²	V_{IN}	0	5	
FAULT output voltage	V_{FLT}	0	V_{CC}	
RCIN input voltage	V_{RCIN}	0	V_{CC}	
Pulse width for ON or OFF ³	t_{IN}	1	–	μs
Ambient temperature	T_a	-40	105	$^{\circ}\text{C}$

¹ Logic operational for V_B (V_B vs. V_S) > 7.0 V

² All input pins (HINx, LINx) and EN, ITRIP pin are internally clamped (see abs. maximum ratings)

³ In case of input pulse width at LINx and HINx below 1 μ the input pulse may not be transmitted properly

Electrical parameters

4.4 Static logic function table

VCC	VBS	RCIN	ITRIP	ENABLE	FAULT	LO1,2,3	HO1,2,3
<V _{CCUV-}	X	X	X	X	0	0	0
15 V	<V _{BSUV-}	X	0	3.3 V	High imp	/LIN1,2,3	0
15 V	15 V	<3.2 V ↓	0	3.3 V	0	0	0
15 V	15 V	X	> V _{IT,TH+}	3.3 V	0	0	0
15 V	15 V	> V _{RCIN,TH}	0	3.3 V	High imp	/LIN1,2,3	/HIN1,2,3
15 V	15 V	> V _{RCIN,TH}	0	0	High imp	0	0

4.5 Static parameters

VCC = VBS = 15V unless otherwise specified. All parameters are valid for Ta=25 °C.

Table 5 Static parameters

Parameter	Symbol	Values			Unit	Test condition
		Min.	Typ.	Max.		
High level input voltage	V _{IH}	1.7	2.1	2.4	V	
Low level input voltage	V _{IL}	0.7	0.9	1.1		
EN positive going threshold	V _{EN,TH+}	1.9	2.1	2.3		
EN negative going threshold	V _{EN,TH-}	1.1	1.3	1.5		
ITRIP positive going threshold	V _{IT,TH+}	380	445	510	mV	
ITRIP input hysteresis	V _{IT,HYS}	45	70			
RCIN positive going threshold	V _{RCIN,TH}	-	5.2	6.4	V	
RCIN input hysteresis	V _{RCIN,HYS}	-	2.0	-		
Input clamp voltage (EN)	V _{IN,CLMAP}	9	10.3	12		I _{IN} = 4mA
Input clamp voltage at high impedance (/HIN, /LIN)	V _{IN,FLOAT}	-	5.3	5.8		controller output pin floating
High level output voltage LO1,2,3 HO1,2,3	V _{OH}	VCC -1.4 VB -1.4	VCC -0.7 VB -0.7			I _O = 20mA
Low level output voltage LO1,2,3 HO1,2,3	V _{OL}	- -	V _{COM} +0.2 V _S + 0.2	V _{COM} +0.6 V _S + 0.6		I _O = -20mA
V _{CC} and V _{BS} supply undervoltage positive going threshold	V _{CCUV+} V _{BSUV+}	11	11.7	12.5	V	
V _{CC} and V _{BS} supply undervoltage negative going threshold	V _{CCUV-} V _{BSUV-}	9.5	9.8	10.8		
V _{CC} and V _{BS} supply undervoltage lockout hysteresis	V _{CCUVH} V _{BSUVH}	1.2	1.9	-		
High side leakage current betw. VS and VSS	I _{LVS+}		1	12.5	μA	V _S = 600V
Quiescent current V _{BS} supply (VB only)	I _{QBS}	-	210	400		
Quiescent current VCC supply (VCC only)	I _{QCC}	-	1.3	2		
Input bias current	I _{LIN-}	-	110	200	μA	V _{LIN} =0
Input bias current	I _{HIN-}	-	110	200		V _{HIN} =0
Input bias current (ITRIP=high)	I _{ITRIP+}		45	120	μA	V _{ITRIP} =3.3 V

Electrical parameters

Table 5 Static parameters

Parameter	Symbol	Values			Unit	Test condition
		Min.	Typ.	Max.		
Input bias current (EN=high)	I_{EN+}	-	45	120		$V_{ENABLE}=3.3\text{ V}$
Input bias current RCIN (internal current source)	I_{RCIN}		2.8			$V_{RCIN} = 2\text{ V}$
Mean output current for load capacity charging in range from 3 V (20%) to 6 V (40%)	I_{O+}	120	165	-	mA	$C_L=10\text{ nF}$
Peak output current turn on (single pulse)	I_{Opk+}^1		240			$R_L = 0\ \Omega\ t_p < 10\ \mu\text{s}$
Mean output current for load capacity discharging in range from 12 V (80%) to 9 V (60%)	I_{O-}	250	375	-		$C_L=10\text{ nF}$
Peak output current turn off (single pulse)	I_{Opk-}^1		420			$R_L = 0\ \Omega, t_p < 10\ \mu\text{s}$
Bootstrap diode resistance	R_{BSD}	24	40	60	Ω	$V_{F1}=4\text{ V}, V_{F2}=5\text{ V}$
RCIN low on resistance of the pull down transistor	$R_{on,RCIN}$	-	40	100		$V_{RCIN}=0.5\text{ V}$
FAULT low on resistance of the pull down transistor	$R_{on,FLT}$	-	45	100		$V_{FAULT}=0.5\text{ V}$

¹ Not subject of production test, verified by characterisation

Electrical parameters

4.6 Dynamic parameters

$V_{CC} = V_{BS} = 15\text{ V}$, $V_S = V_{SS} = V_{COM}$ unless otherwise specified. All parameters are valid for $T_a = 25\text{ }^\circ\text{C}$.

Table 6 Dynamic parameters

Parameter	Symbol	Values			Unit	Test condition
		Min.	Typ.	Max.		
Turn-on propagation delay	t_{on}	400	530	800	ns	$V_{LIN/HIN} = 0\text{ or }3.3\text{ V}$
Turn-off propagation delay	t_{off}	360	490	760		
Turn-on rise time	t_r	-	60	100		$V_{LIN/HIN} = 0\text{ or }3.3\text{ V}$
Turn-off fall time	t_f	-	26	45		$C_L = 1\text{ nF}$
Shutdown propagation delay ENABLE	t_{EN}	-	780	1100		$V_{EN} = 0$
Shutdown propagation delay ITRIP	t_{ITRIP}	400	670	1000		$V_{ITRIP} = 1\text{ V}$
Input filter time ITRIP	$t_{ITRIPMIN}$	155	230	380		
Propagation delay ITRIP to FAULT	t_{FLT}	-	420	700		
Input filter time at LIN/HIN for turn on and off	t_{FILIN}	120	300	-		$V_{LIN/HIN} = 0\text{ \& }3.3\text{ V}$
Input filter time EN	t_{FILEN}	300	600	-	ms	
Fault clear time at RCIN after ITRIP-fault, ($C_{RCin} = 1\text{ nF}$)	t_{FLTCLR}	1.0	1.9	4.0		$V_{LIN/HIN} = 0\text{ \& }3.3\text{ V}$ $V_{ITRIP} = 0$
Dead time	DT	150	310	-	ns	$V_{LIN/HIN} = 0\text{ \& }3.3\text{ V}$
Matching delay ON, max(t_{on})-min(t_{on}), t_{on} are applicable to all 6 driver outputs	MT_{ON}	-	20	100		external dead time > 500 ns
Matching delay OFF, max(t_{off})-min(t_{off}), t_{off} are applicable to all 6 driver outputs	MT_{OFF}	-	40	100		external dead time > 500 ns
Output pulse width matching. PW_{in} - PW_{out}	PM		40	100		$PW_{in} > 1\text{ }\mu\text{s}$

5 Timing diagrams

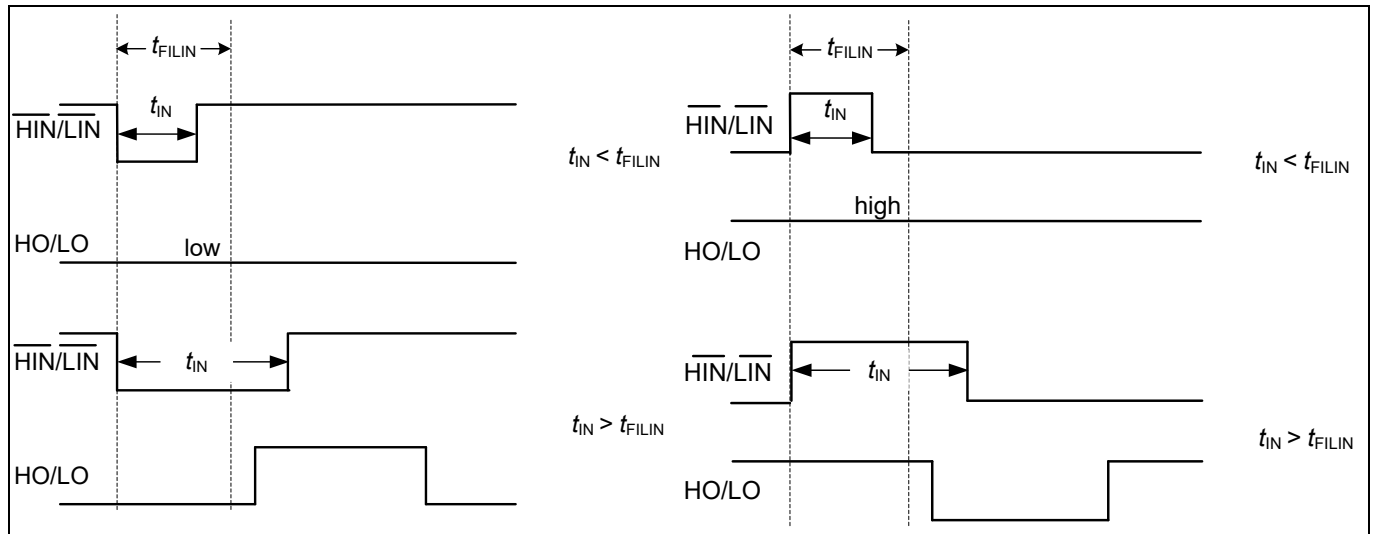


Figure 8 Timing of short pulse suppression (IRS2136DSTRPBF)

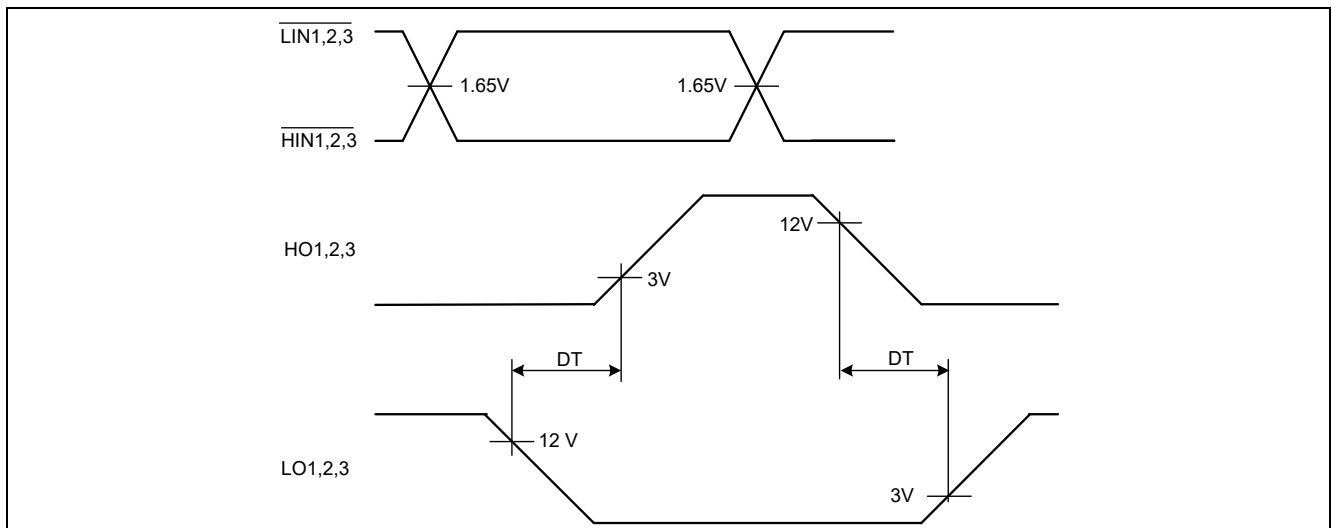


Figure 9 Timing of internal deadtime

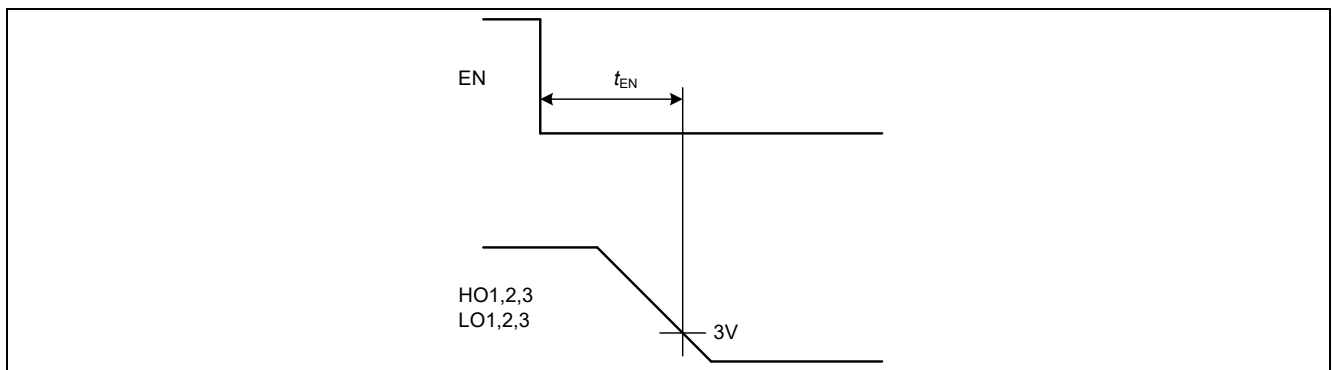


Figure 10 Enable delay time definition

IRS2136DSTRPBF

600 V three-phase driver with OCP, Enable, Fault and Bootstrap Diode

Timing diagrams

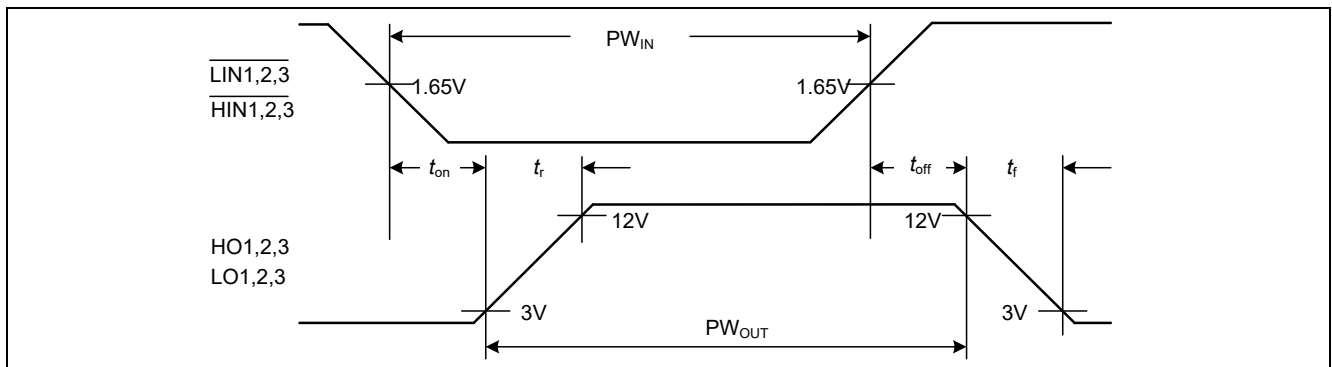


Figure 11 Input to output propagation delay times and switching times definition

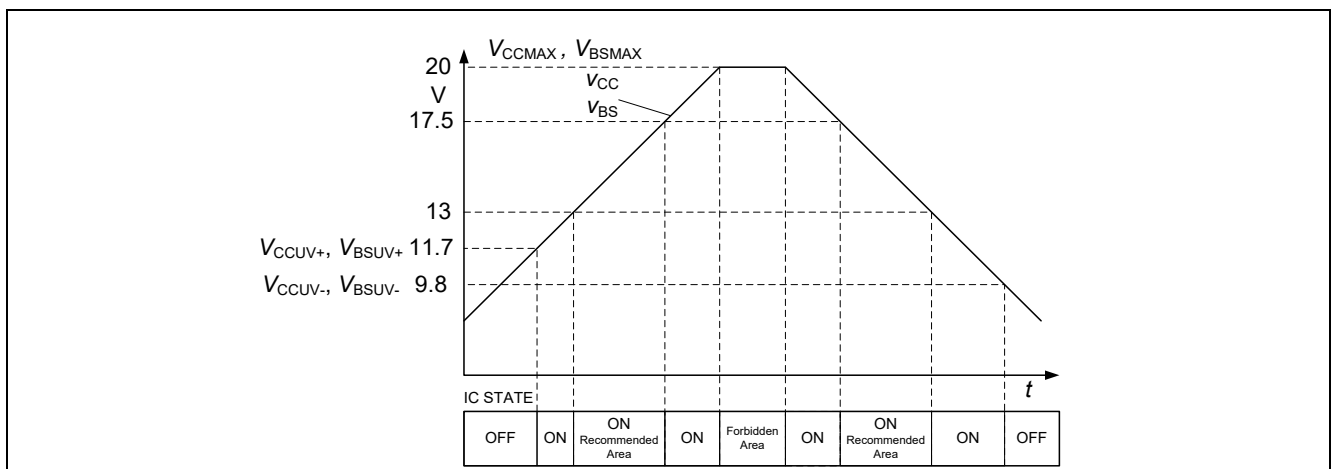


Figure 12 Operating areas

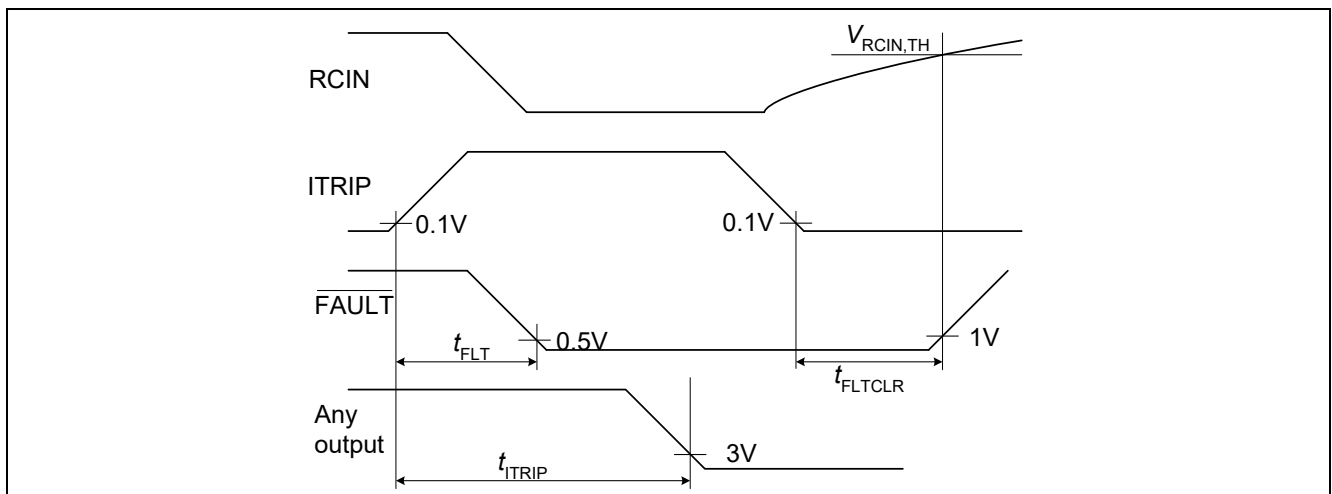


Figure 13 ITRIP-Timing

Timing diagrams

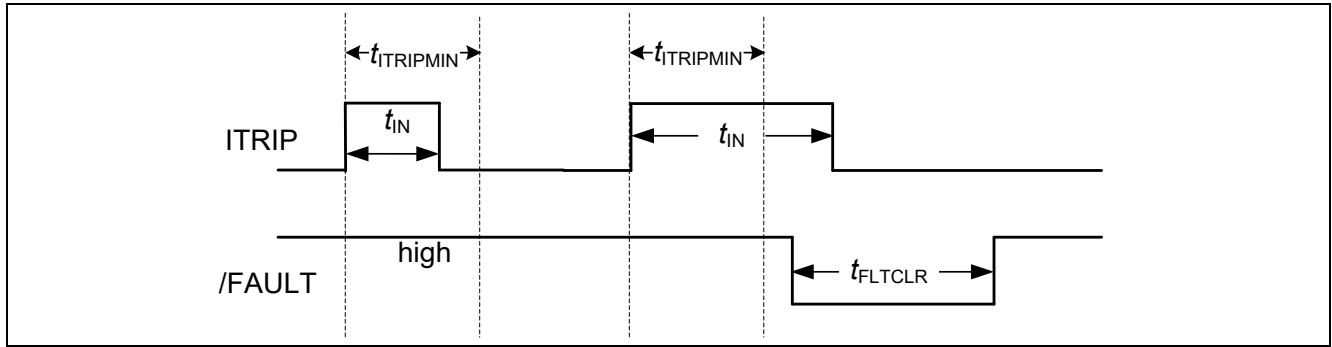


Figure 14 ITRIP Input Timing

IRS2136DSTRPBF

600 V three-phase driver with OCP, Enable, Fault and Bootstrap Diode

Package information

6 Package information

6.1 PG-DSO-28

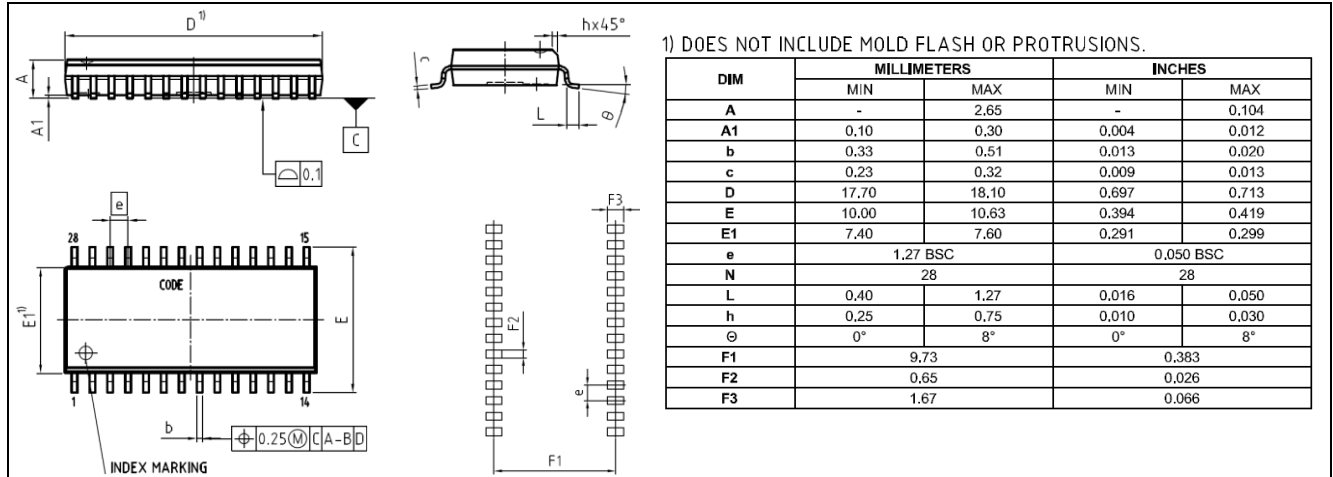


Figure 15 Package drawing

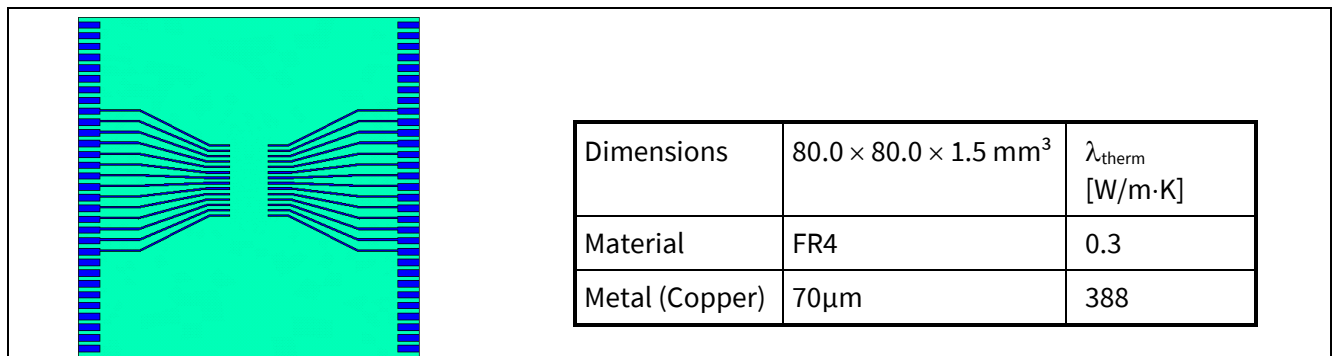


Figure 16 PCB reference layout

7 Qualification information¹

Table 7 Qualification information

Qualification level		Industrial ²
		Note: This device has passed JEDEC's Industrial qualification. Consumer qualification level is granted by extension of the higher Industrial level.
Moisture sensitivity level		MSL3 ³ , 260°C (per IPC/JEDEC J-STD-020)
ESD	Charged device model	Class C3 (> 1.0 kV) (per JESD22-C101)
	Human body model	Class 1C (per JEDEC standard JESD22-A114)
RoHS compliant		Yes

8 Related products

Table 8

Gate Driver ICs	
IRS2304	600 V half-bridge gate driver IC with typical 0.29 A source and 0.6 A sink currents in 8 Lead SOIC package with level-shift technology for IGBTs and MOSFETs
IR2136S	600 V three phase gate driver IC with typical 0.2 A source and 0.35 A sink current in SOIC-28 wide body package with junction-isolated level-shift technology for IGBTs and MOSFETs.
Power Switches	
IKD04N60R / RE	600 V TRENCHSTOP™ IGBT with integrated diode in PG-TO252-3 package
IPD65R950CFD	650 V CoolMOS CFD2 with integrated fast body diode in DPAK
IPN50R950CE	500 V CoolMOS CE Superjunction MOSFET in PG-SOT223 package

¹ Qualification standards can be found at Infineon's web site www.infineon.com

² Higher qualification ratings may be available should the user have such requirements. Please contact your Infineon sales representative for further information.

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Revision history

Document version	Date of release	Description of changes
V2.0	1/21/2026	Initial Release

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