

SLG59M1742C

An Ultra-low Power, $R_{DS(ON)} 18\text{ m}\Omega$, 1 A, 0.82 mm^2 WLCSP
Integrated Power Switch with 550 μs Total Turn-on Time

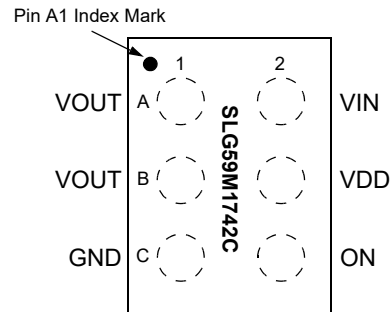
General Description

The SLG59M1742C is a high-performance 1 A capable, single-channel integrated power switch designed for high-side power control applications up to 1 A. This feature-rich nFET IPS has been optimized for all small form-factor, single-cell Li-ion applications including smartphone, fitness bands, and watches.

Operating from 2.7 V to 3.6 V supplies, the SLG59M1742C's $R_{DS(ON)}$ is a 18 m Ω and exhibits an input voltage range that extends from 0.25 V to 1.5 V. With a typical 550 μs total turn-on time (adjustable via metal mask from 300 μs to 1 ms), inrush currents at V_{IN} are well behaved.

Using Dialog's proprietary MOSFET IP, the SLG59M1742C achieves a stable $R_{DS(ON)}$ as a function of both the supply and input voltages. Fully specified over the $-40\text{ }^{\circ}\text{C}$ to $85\text{ }^{\circ}\text{C}$ temperature range, this advanced nFET IPS is available in 6-lead WLCSP measuring $0.71\text{ mm} \times 1.16\text{ mm} \times 0.5\text{ mm}$ with 0.35 mm pitch.

Pin Configuration



6L WLCSP
(Laser Marking View)

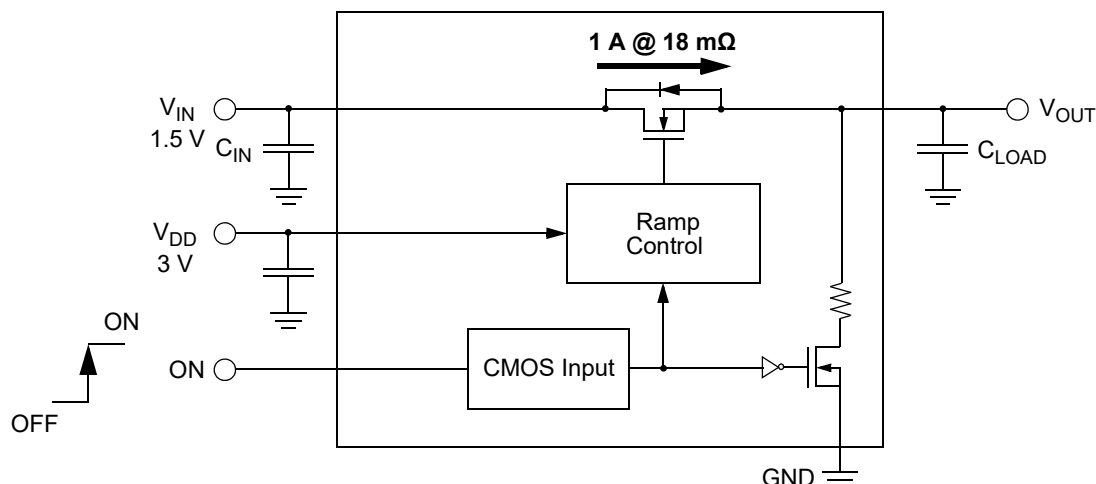
Features

- High-performance nFET Design:
 - Low Typical $R_{DS(ON)}$: 18 m Ω
- Steady-state Operating Current: 1 A
- Very Low Supply current after startup: $< 1\text{ }\mu\text{A}$
- Operating V_{DD} Range: $2.7\text{ V} \leq V_{DD} \leq 3.6\text{ V}$
- Operating V_{IN} Range: $0.25\text{ V} \leq V_{IN} \leq 1.5\text{ V}$
- Typical total turn on time: 550 μs
- Fast V_{OUT} Discharge
- ON/OFF Control: Active HIGH
- Operating Temperature: $-40\text{ }^{\circ}\text{C}$ to $85\text{ }^{\circ}\text{C}$
- Pb-Free / Halogen-Free / RoHS compliant WLCSP
 - 6 lead $0.71\text{ mm} \times 1.16\text{ mm}$, 0.35 mm pitch

Applications

- Smartphones
- Fitness Bands
- Watches
- Tablet PCs

Block Diagram



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Pin Description

Pin #	Pin Name	Type	Pin Description
B2	VDD	Power	VDD supplies the power for the operation of the power switch and the internal control circuitry. Bypass the VDD pin to GND with a 0.1 μ F (or larger) capacitor.
A2	VIN	MOSFET	Drain terminal connection of the n-channel MOSFET. Connect a 1 μ F (or larger) low-ESR capacitor from this pin to ground.
A1, B1	VOUT	MOSFET	Source terminal connections of the n-channel MOSFET. Connect a low-ESR capacitor from this pin to ground and consult the Electrical Characteristics table for recommended C_{LOAD} range.
C2	ON	Input	A low-to-high transition on this pin initiates the operation of the SLG59M1742C's state machine. ON is an asserted HIGH, level-sensitive CMOS input with $ON_{V_{IL}} < 0.3$ V and $ON_{V_{IH}} > 0.85$ V. As the ON pin input circuit has an internal 8 M Ω pull-down, connect this pin to a general-purpose output (GPO) of a microcontroller, an application processor, or a system controller.
C1	GND	VOUT	Ground connection. Connect this pin to system analog or power ground plane.

Ordering Information

Part Number	Type	Production Flow
SLG59M1742C	WLCSP 6L	Industrial, -40 °C to 85 °C
SLG59M1742CTR	WLCSP 6L (Tape and Reel)	Industrial, -40 °C to 85 °C

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Absolute Maximum Ratings

Parameter	Description	Conditions	Min.	Typ.	Max.	Unit
V_{DD} to GND	Power Supply Voltage to GND		-0.3	--	5	V
V_{IN} to GND	Power Switch Input Voltage to GND		-0.3	--	5	V
V_{OUT} to GND	Power Switch Output Voltage to GND		-0.3	--	5	V
ON to GND	ON Pin Voltage to GND		-0.3	--	5	V
T_S	Storage Temperature		-65	--	150	°C
ESD _{HBM}	ESD Protection	Human Body Model	3000	--	--	V
ESD _{CDM}	ESD Protection	Charged Device Model	1300	--	--	V
MSL	Moisture Sensitivity Level		1			
θ_{JA}	Package Thermal Resistance, Junction-to-Ambient	0.71 x 1.16 mm 6L WLCSP; Determined using 0.25 in ² , 1 oz. copper pads under each VIN and VOUT terminal and FR4 pcb material.	--	88	--	°C/W
$T_{J,MAX}$	Maximum Junction Temperature		--	150	--	°C
MOSFET IDS _{PK}	Peak Current from VIN to VOUT	Maximum pulsed switch current, pulse width < 1 ms, 1% duty cycle	--	--	1.5	A

Note: Stresses greater than those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress rating only and functional operation of the device at these or any other conditions above those indicated in the operational sections of this specification is not implied. Exposure to absolute maximum rating conditions for extended periods may affect reliability.

Electrical Characteristics

2.7 V $\leq V_{DD} \leq$ 3.6 V; 0.25 V $\leq V_{IN} \leq$ 1.5 V; $T_A = -40$ °C to 85 °C, unless otherwise noted. Typical values are at $T_A = 25$ °C

Parameter	Description	Conditions	Min.	Typ.	Max.	Unit
V_{DD}	Power Supply Voltage		2.7	--	3.6	V
V_{IN}	Power Switch Input Voltage		0.25	--	1.5	V
I_{DD_Q1}	V_{DD} Quiescent Supply Current during startup	$V_{DD} = 2.7$ V; ON = V_{DD} ; No Load	--	61.5	82.5	μ A
		$V_{DD} = 2.7$ V; ON = 1.8 V; No Load	--	61.5	82.5	μ A
		$V_{DD} = 3.0$ V; ON = V_{DD} ; No Load	--	61.7	83.6	μ A
		$V_{DD} = 3.0$ V; ON = 1.8 V; No Load	--	61.7	83.6	μ A
		$V_{DD} = 3.3$ V; ON = V_{DD} ; No Load	--	61.8	84.2	μ A
		$V_{DD} = 3.3$ V; ON = 1.8 V; No Load	--	61.8	84.2	μ A
		$V_{DD} = 3.6$ V; ON = V_{DD} ; No Load	--	61.8	84.2	μ A
		$V_{DD} = 3.6$ V; ON = 1.8 V; No Load	--	61.8	84.2	μ A
I_{DD_Q2}	V_{DD} Quiescent Supply Current after startup / Power FET fully turned on	2.7 V $\leq V_{DD} \leq$ 3.6 V; ON = V_{DD} after startup; No Load	--	--	0.5	μ A
I_{SHDN}	OFF Mode Supply Current	2.7 V $\leq V_{DD} \leq$ 3.6 V; ON = LOW; No Load	--	--	0.33	μ A
MOSFET IDS	Current from VIN to VOUT	Continuous	--	--	1	A

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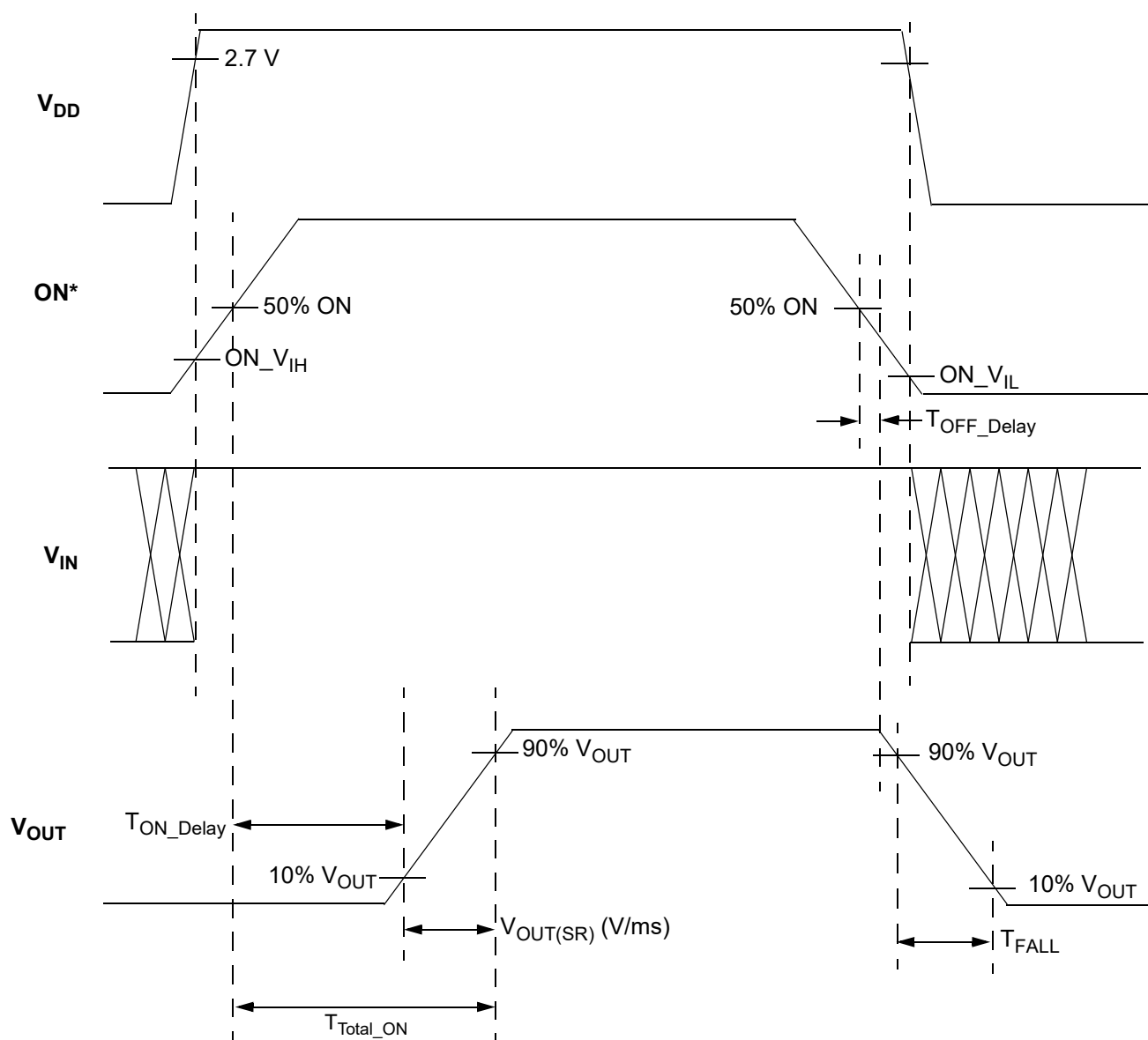
Electrical Characteristics (continued)

2.7 V $\leq$ V_{DD} $\leq$ 3.6 V; 0.25 V $\leq$ V_{IN} $\leq$ 1.5 V; T_A = -40 °C to 85 °C, unless otherwise noted. Typical values are at T_A = 25°C

Parameter	Description	Conditions	Min.	Typ.	Max.	Unit
R _{DS(on)}	ON Resistance	T _A = 25°C; V _{DD} = 3.0 V; V _{IN} = 1.5 V; I _{DS} = 0.1 A	--	18	20	m Ω
		T _A = 85°C; V _{DD} = 3.0 V; V _{IN} = 1.5 V; I _{DS} = 0.1 A	--	21	24	m Ω
I _{FET_OFF}	MOSFET OFF Leakage Current	2.7 V $\leq$ V _{DD} $\leq$ 3.6 V; V _{IN} = 1.5 V, V _{OUT} = 0 V; ON = LOW	--	0.01	1	μ A
T _{ON_Delay}	ON Delay Time	50% ON to 10% V _{OUT} $\uparrow$; V _{DD} = 2.7 V; V _{IN} = 1.5 V; R _{LOAD} = 1 k Ω ; C _{LOAD} = 10 μ F	--	0.27	0.36	ms
		50% ON to 10% V _{OUT} $\uparrow$; V _{DD} = 3.6 V; V _{IN} = 1.5 V; R _{LOAD} = 1 k Ω ; C _{LOAD} = 10 μ F	--	0.27	0.36	ms
V _{OUT(SR)}	Slew Rate	10% V _{OUT} to 90% V _{OUT} $\uparrow$; V _{DD} = 2.7 V; V _{IN} = 1.5 V; R _{LOAD} = 1 k Ω ; C _{LOAD} = 10 μ F	3.2	4.3	5.5	V/ms
		10% V _{OUT} to 90% V _{OUT} $\uparrow$; V _{DD} = 3.6 V; V _{IN} = 1.5 V; R _{LOAD} = 1 k Ω ; C _{LOAD} = 10 μ F	3.2	4.3	5.5	V/ms
T _{Total_ON}	Total Turn On Time	50% ON to 90% V _{OUT} $\uparrow$; V _{DD} = 2.7 V; V _{IN} = 1.5 V; R _{LOAD} = 1 k Ω ; C _{LOAD} = 10 μ F	0.45	0.55	0.65	ms
		50% ON to 90% V _{OUT} $\uparrow$; V _{DD} = 3.6 V; V _{IN} = 1.5 V; R _{LOAD} = 1 k Ω ; C _{LOAD} = 10 μ F	0.45	0.55	0.65	ms
T _{OFF_Delay}	OFF Delay Time	50% ON to V _{OUT} Fall Start; V _{DD} = 2.7 V; V _{IN} = 1.5 V; R _{LOAD} = 1 k Ω ; no C _{LOAD}	--	2.8	5	μ s
		50% ON to V _{OUT} Fall Start; V _{DD} = 3.6 V; V _{IN} = 1.5 V; R _{LOAD} = 1 k Ω ; no C _{LOAD}	--	6.3	8	μ s
C _{LOAD}	Output Load Capacitance	C _{LOAD} connected from V _{OUT} to GND	--	10	30	μ F
R _{DISCHRG}	Output Discharge Resistance	2.7 V $\leq$ V _{DD} $\leq$ 3.6 V; V _{OUT} < 0.4 V	--	160	210	Ω
ON_V _{IH}	ON Pin Input High Voltage		0.85	--	V _{DD}	V
ON_V _{IL}	ON Pin Input Low Voltage		-0.3	0	0.3	V

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T_{Total_ON} , T_{ON_Delay} and Slew Rate Measurement

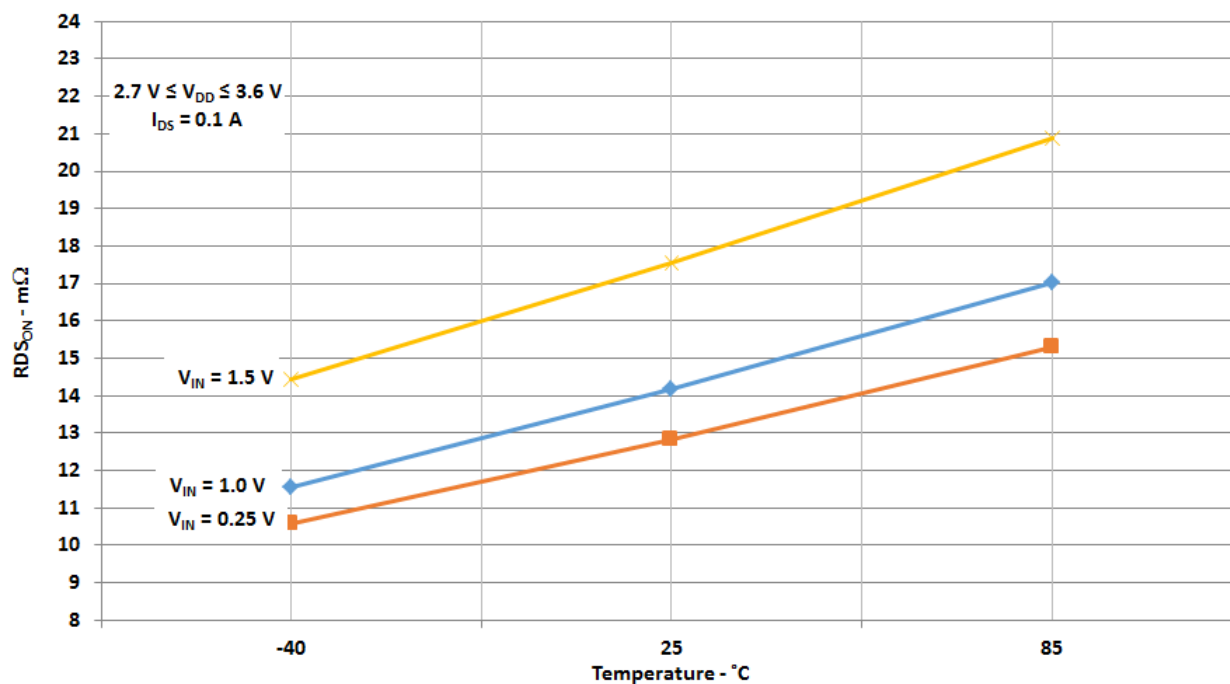


*Rise and Fall Times of the ON Signal are 100 ns

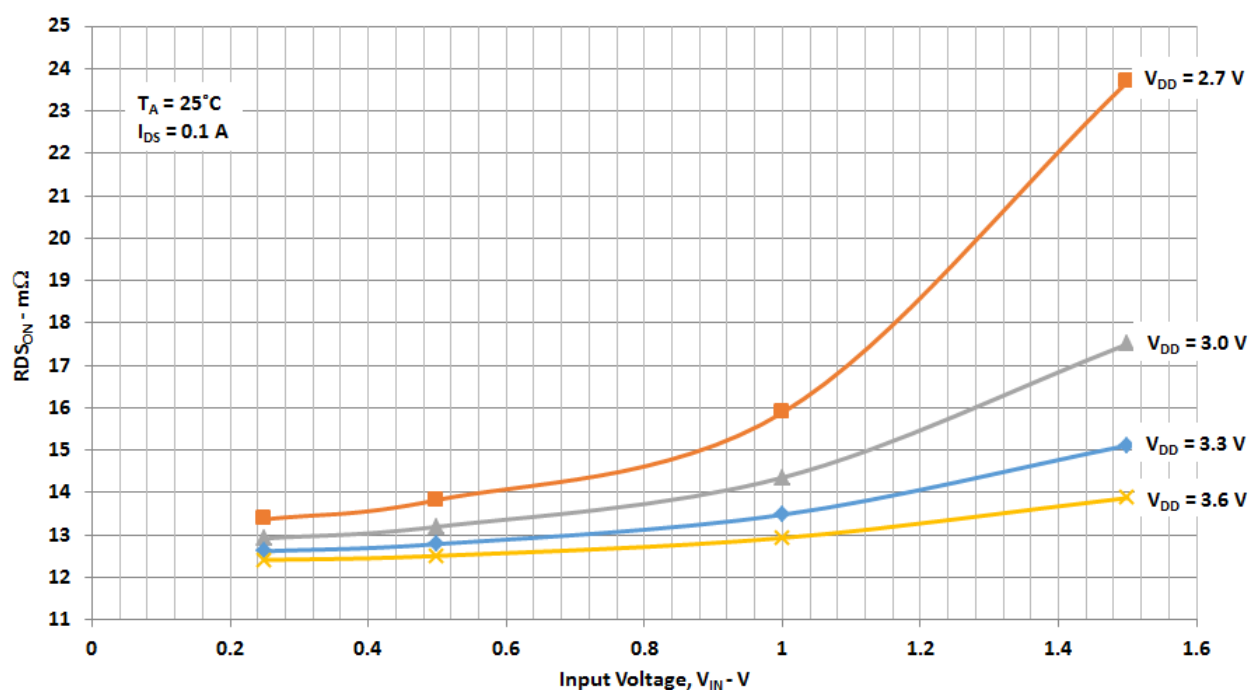
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Typical Performance Characteristics

$R_{DS(on)}$ vs. Temperature, V_{IN} , and V_{DD}

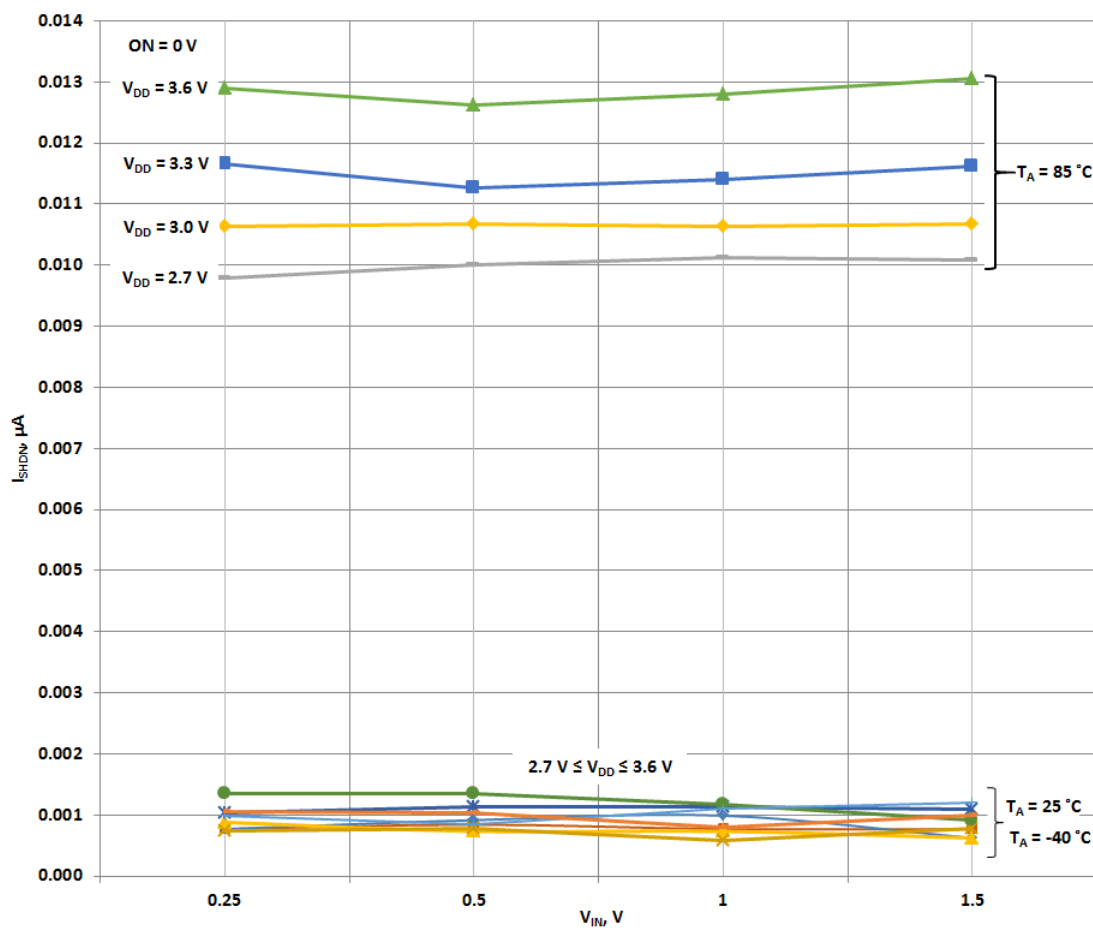


$R_{DS(on)}$ vs. V_{IN} , and V_{DD}

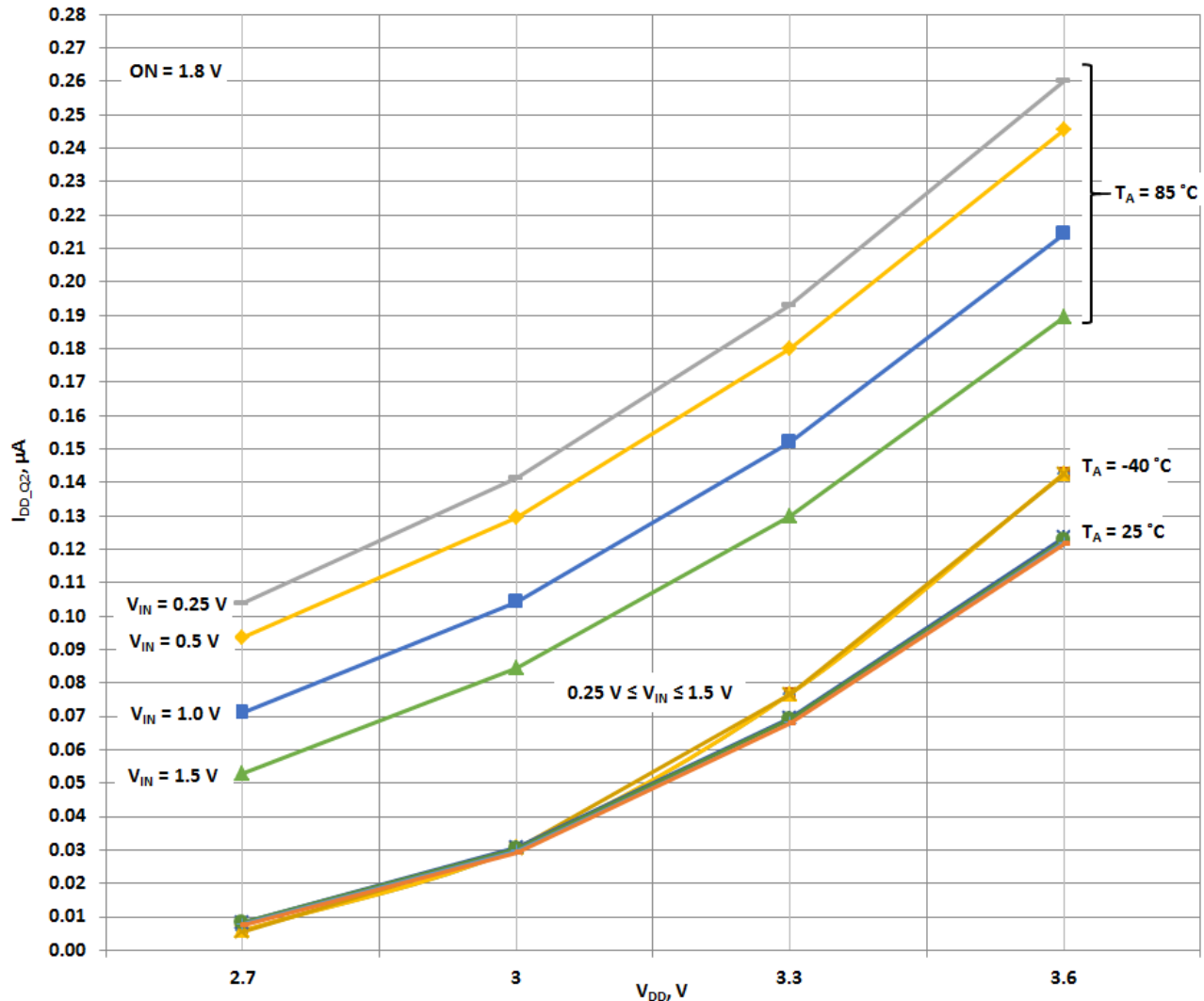


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I_{SHDN} vs. V_{IN} , V_{DD} , and Temperature

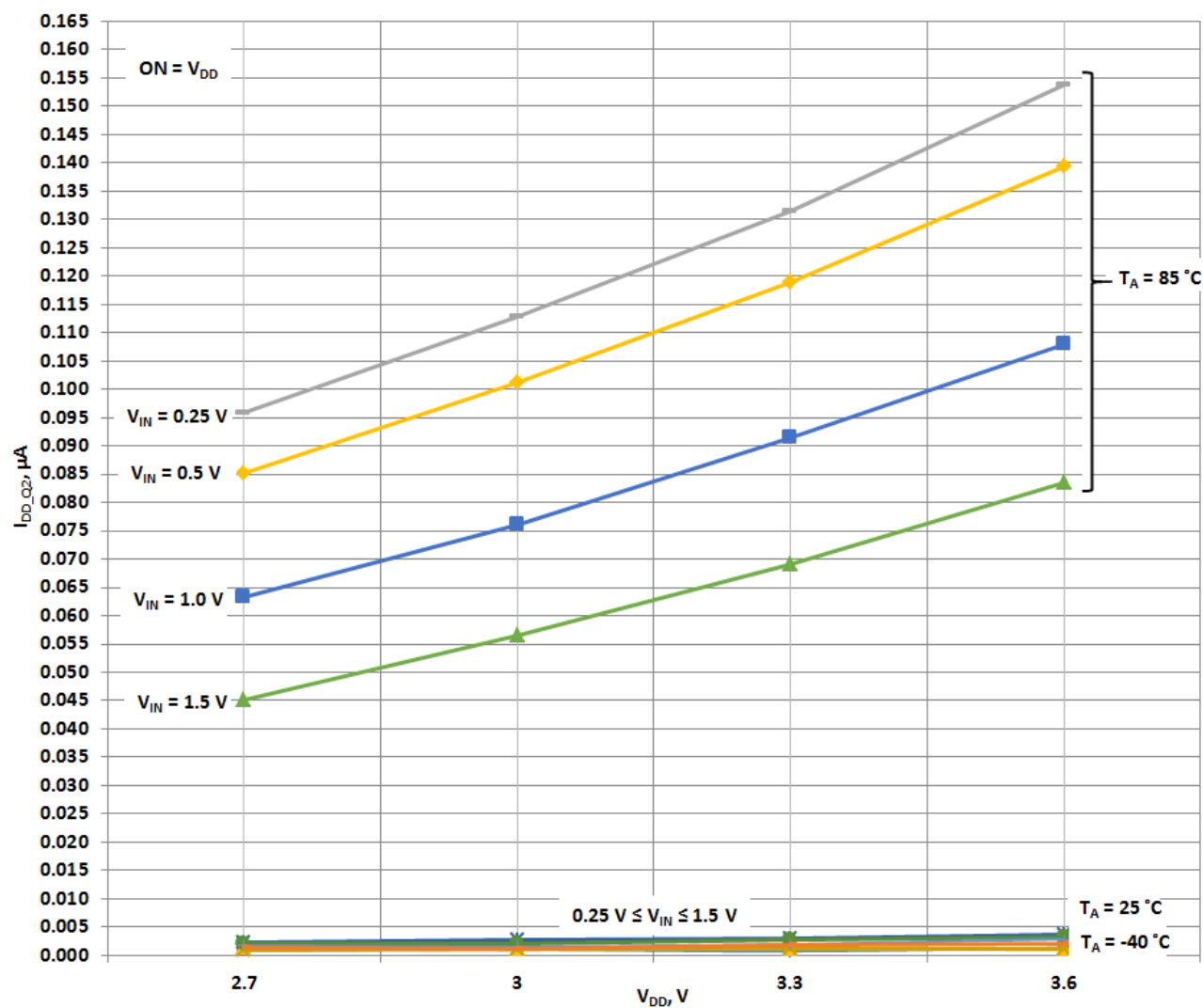


I_{DD_Q2} when ON = 1.8 V vs. V_{IN}, V_{DD}, and Temperature



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I_{DD_Q2} when ON = V_{DD} vs. V_{IN} , V_{DD} , and Temperature



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Typical Turn-on Waveforms

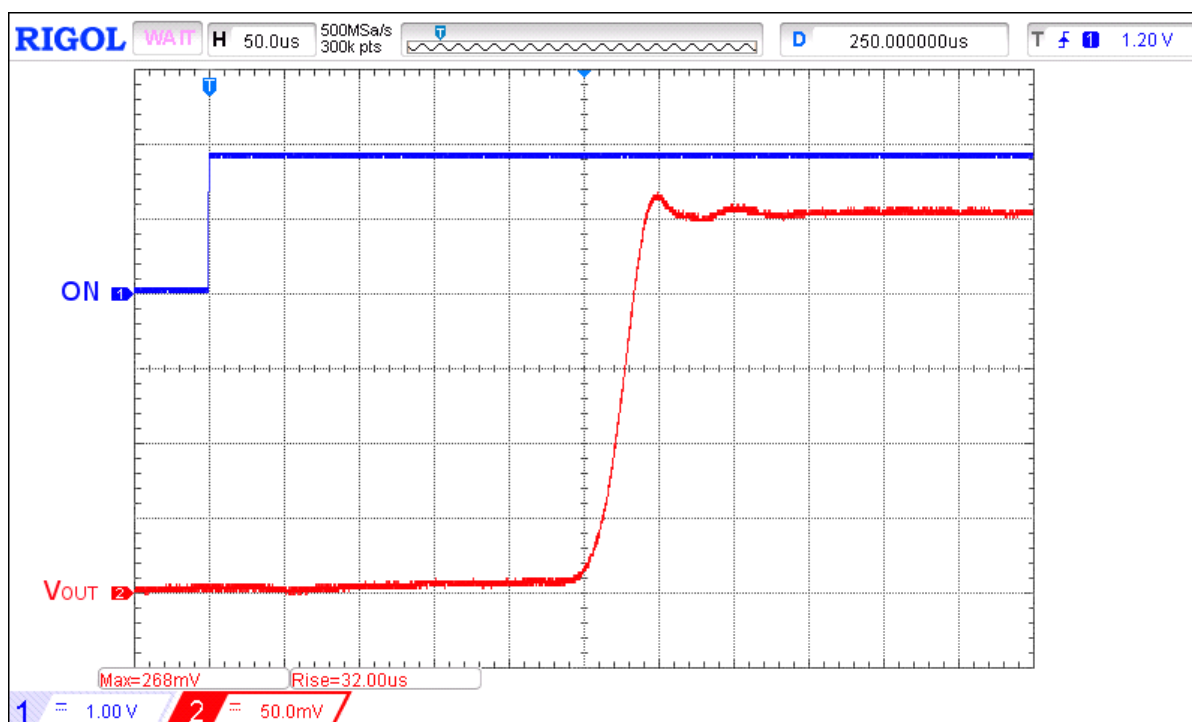


Figure 1. Typical Turn ON operation waveform for $V_{DD} = 2.7$ V, $V_{IN} = 0.25$ V, $C_{LOAD} = 10$ μ F, $R_{LOAD} = 1$ k Ω

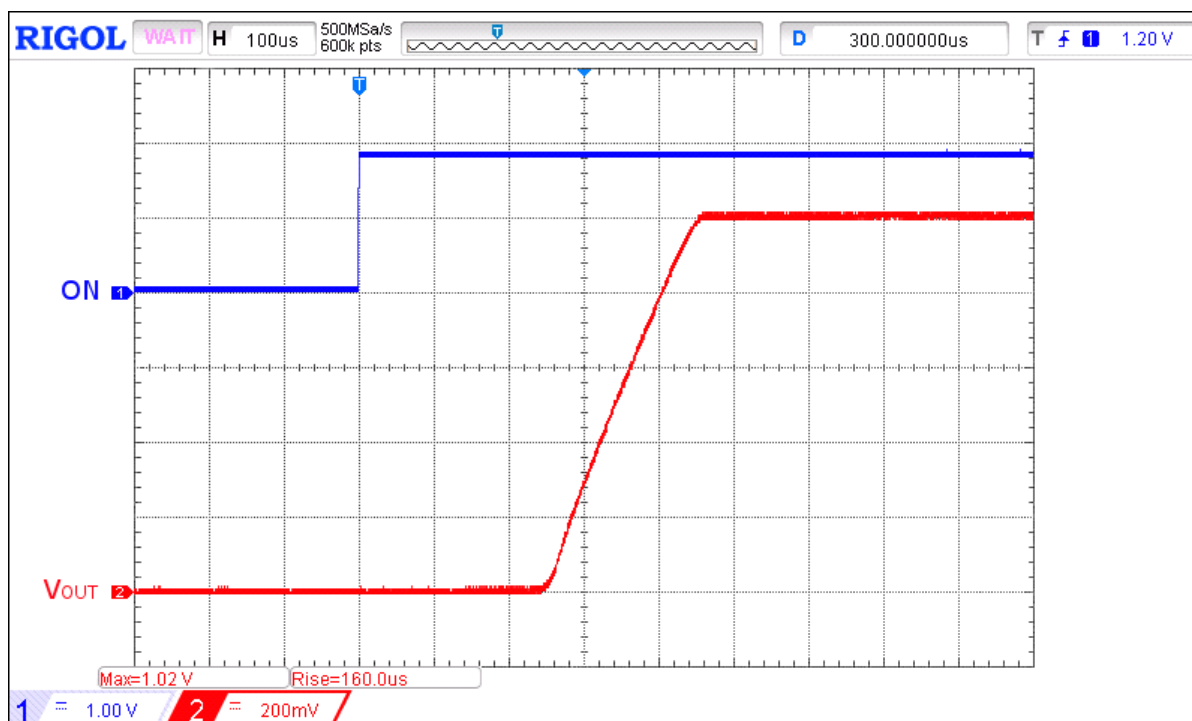


Figure 2. Typical Turn ON operation waveform for $V_{DD} = 2.7$ V, $V_{IN} = 1$ V, $C_{LOAD} = 10$ μ F, $R_{LOAD} = 1$ k Ω

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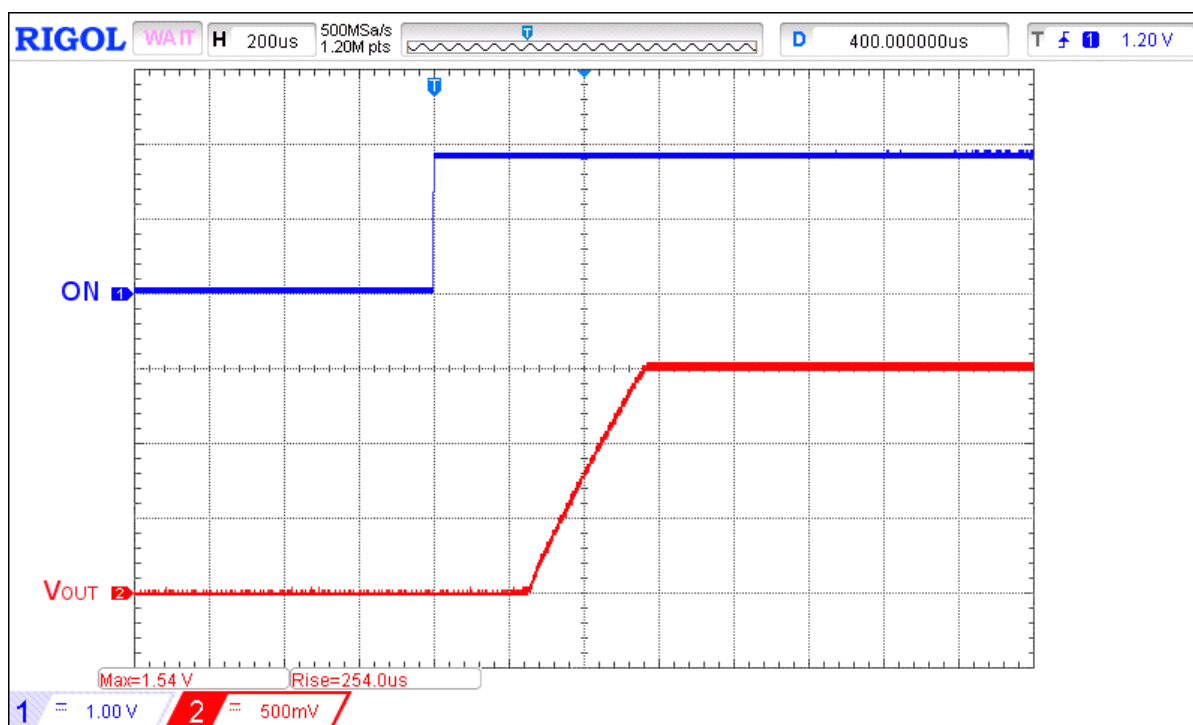


Figure 3. Typical Turn ON operation waveform for $V_{DD} = 2.7\text{ V}$, $V_{IN} = 1.5\text{ V}$, $C_{LOAD} = 10\text{ }\mu\text{F}$, $R_{LOAD} = 1\text{ k}\Omega$

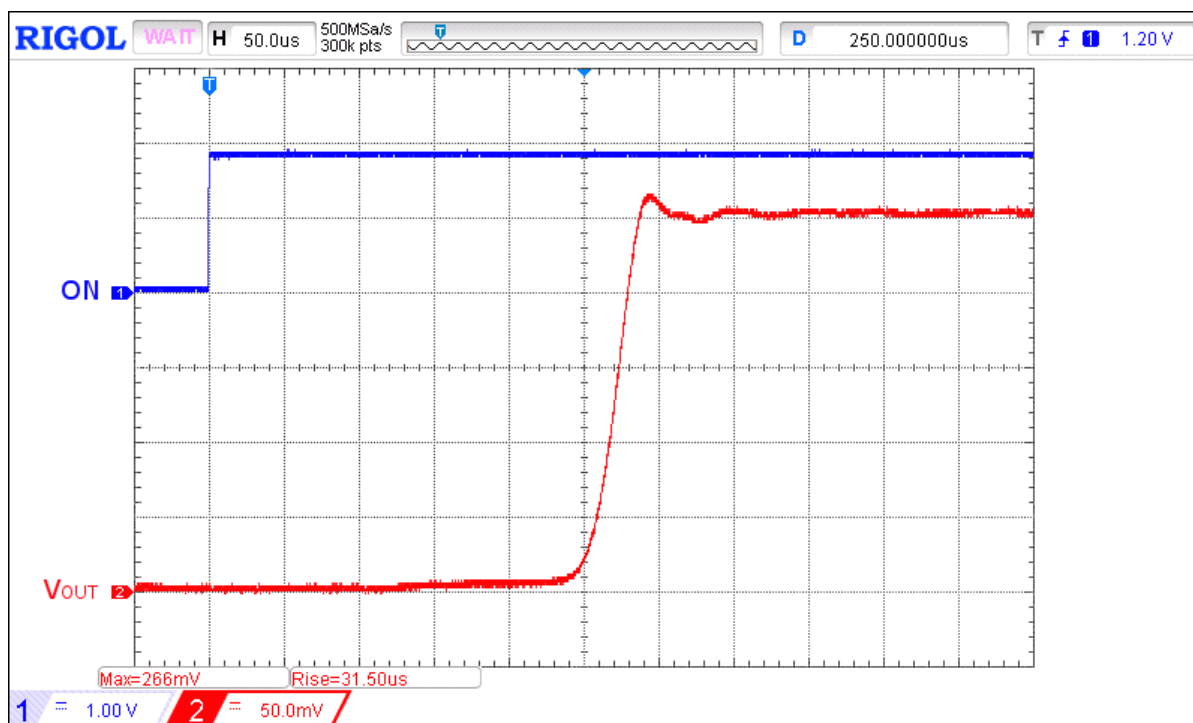


Figure 4. Typical Turn ON operation waveform for $V_{DD} = 3\text{ V}$, $V_{IN} = 0.25\text{ V}$, $C_{LOAD} = 10\text{ }\mu\text{F}$, $R_{LOAD} = 1\text{ k}\Omega$

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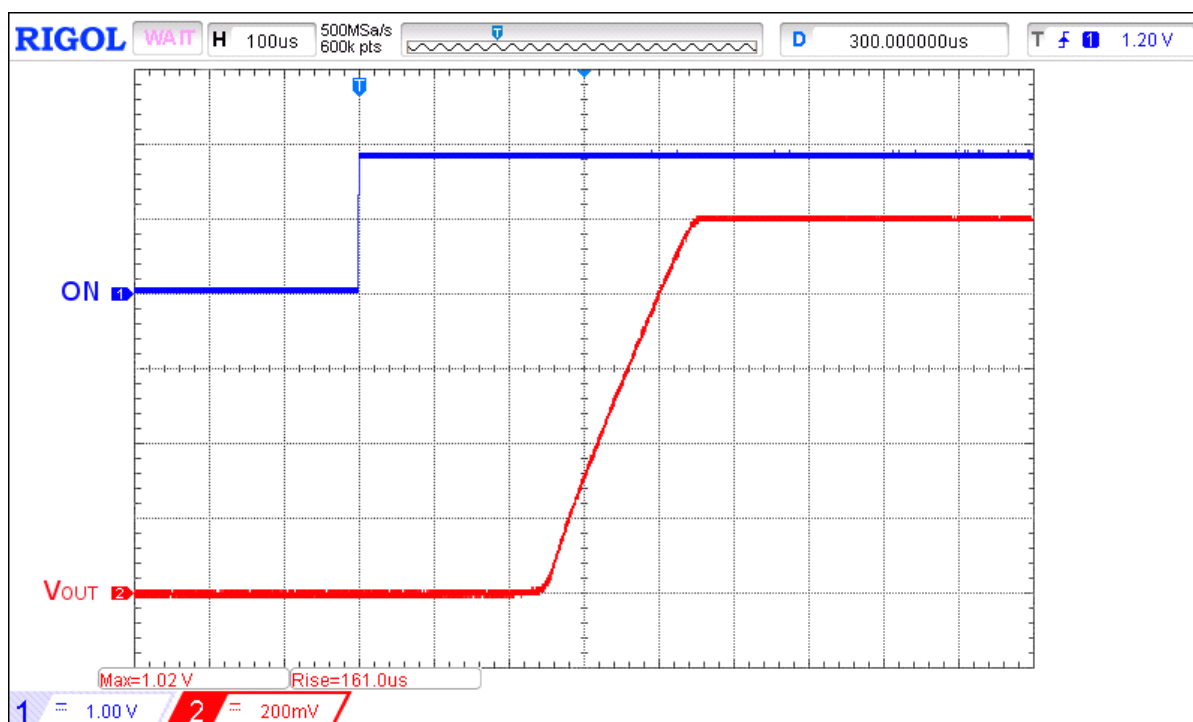


Figure 5. Typical Turn ON operation waveform for $V_{DD} = 3\text{ V}$, $V_{IN} = 1\text{ V}$, $C_{LOAD} = 10\text{ }\mu\text{F}$, $R_{LOAD} = 1\text{ k}\Omega$

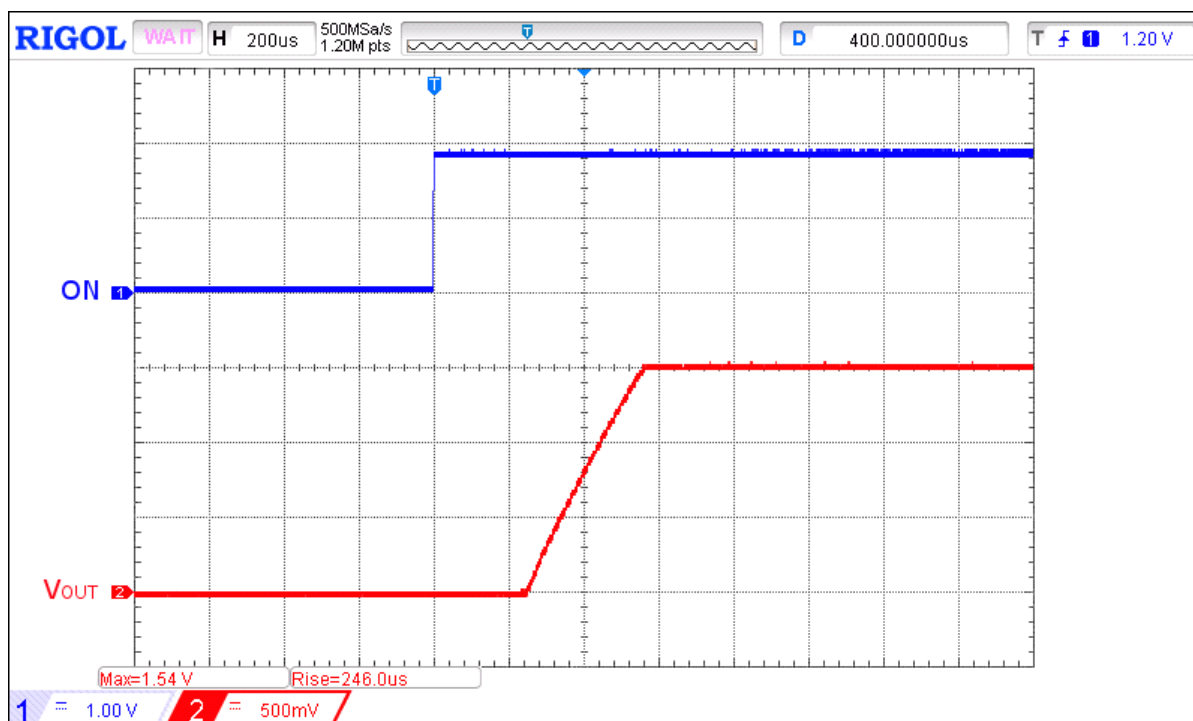


Figure 6. Typical Turn ON operation waveform for $V_{DD} = 3\text{ V}$, $V_{IN} = 1.5\text{ V}$, $C_{LOAD} = 10\text{ }\mu\text{F}$, $R_{LOAD} = 1\text{ k}\Omega$

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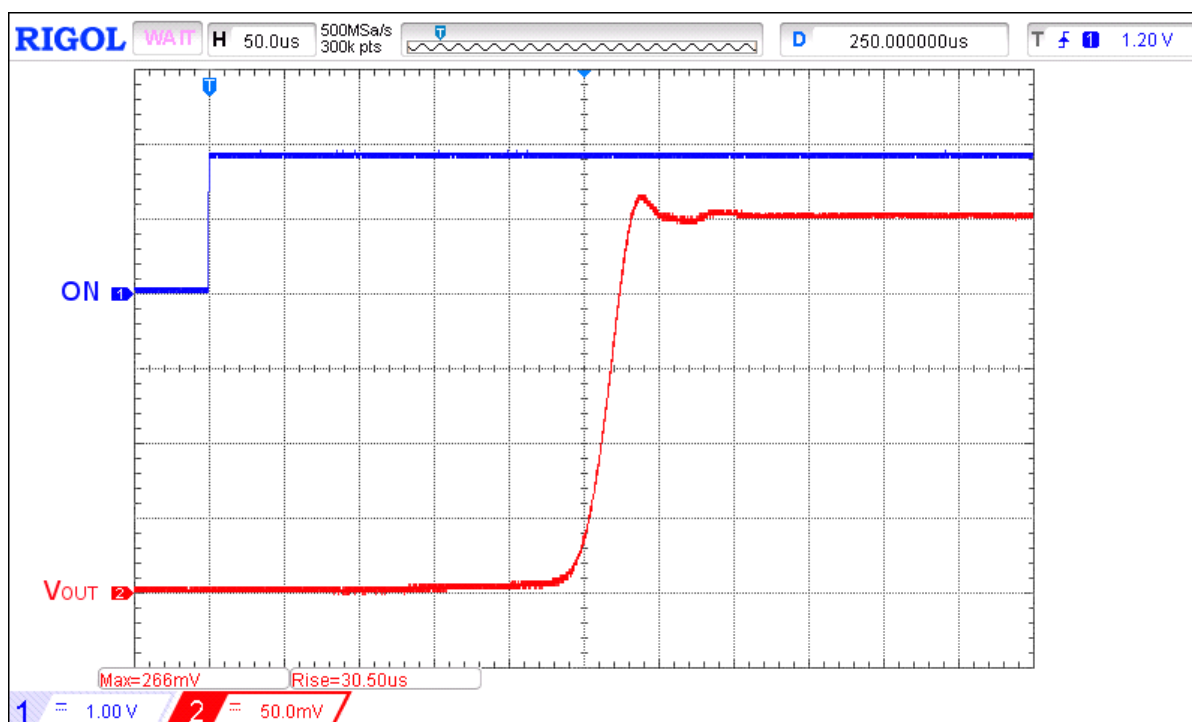


Figure 7. Typical Turn ON operation waveform for $V_{DD} = 3.6$ V, $V_{IN} = 0.25$ V, $C_{LOAD} = 10$ μ F, $R_{LOAD} = 1$ k Ω

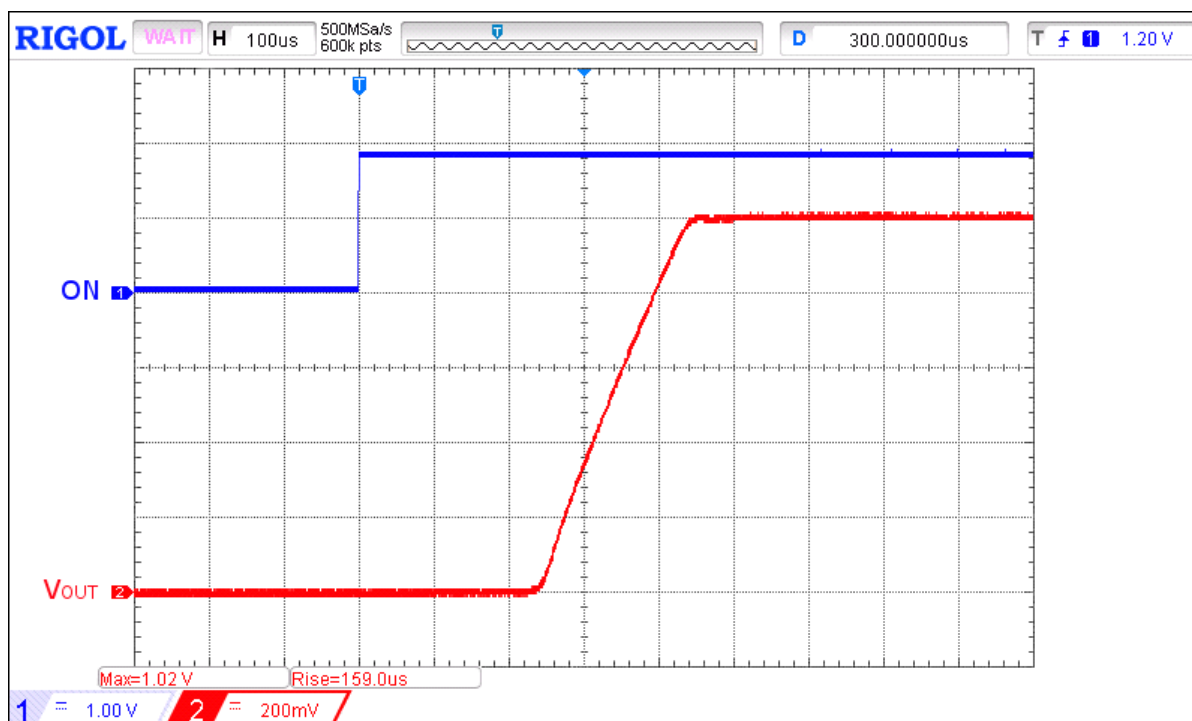


Figure 8. Typical Turn ON operation waveform for $V_{DD} = 3.6$ V, $V_{IN} = 1$ V, $C_{LOAD} = 10$ μ F, $R_{LOAD} = 1$ k Ω

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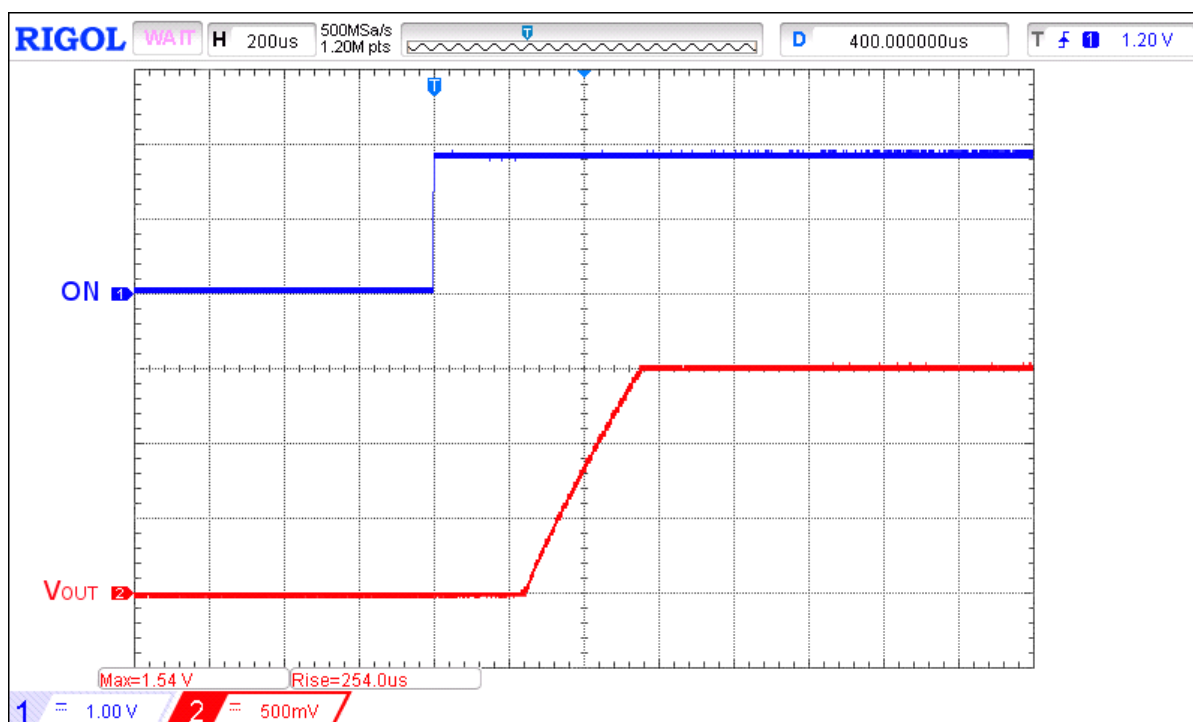


Figure 9. Typical Turn ON operation waveform for $V_{DD} = 3.6$ V, $V_{IN} = 1.5$ V, $C_{LOAD} = 10$ μ F, $R_{LOAD} = 1$ k Ω

Typical Turn-off Waveforms

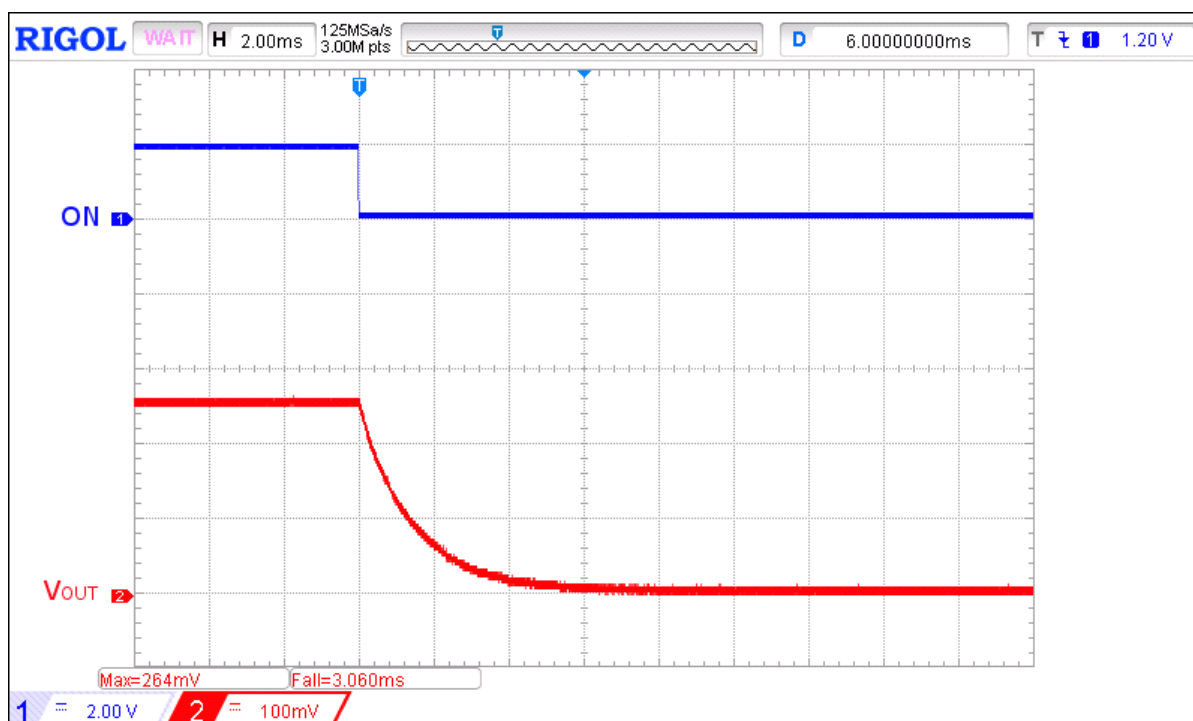


Figure 10. Typical Turn OFF operation waveform for $V_{DD} = 2.7$ V, $V_{IN} = 0.25$ V, $C_{LOAD} = 10$ μ F, $R_{LOAD} = 1$ k Ω

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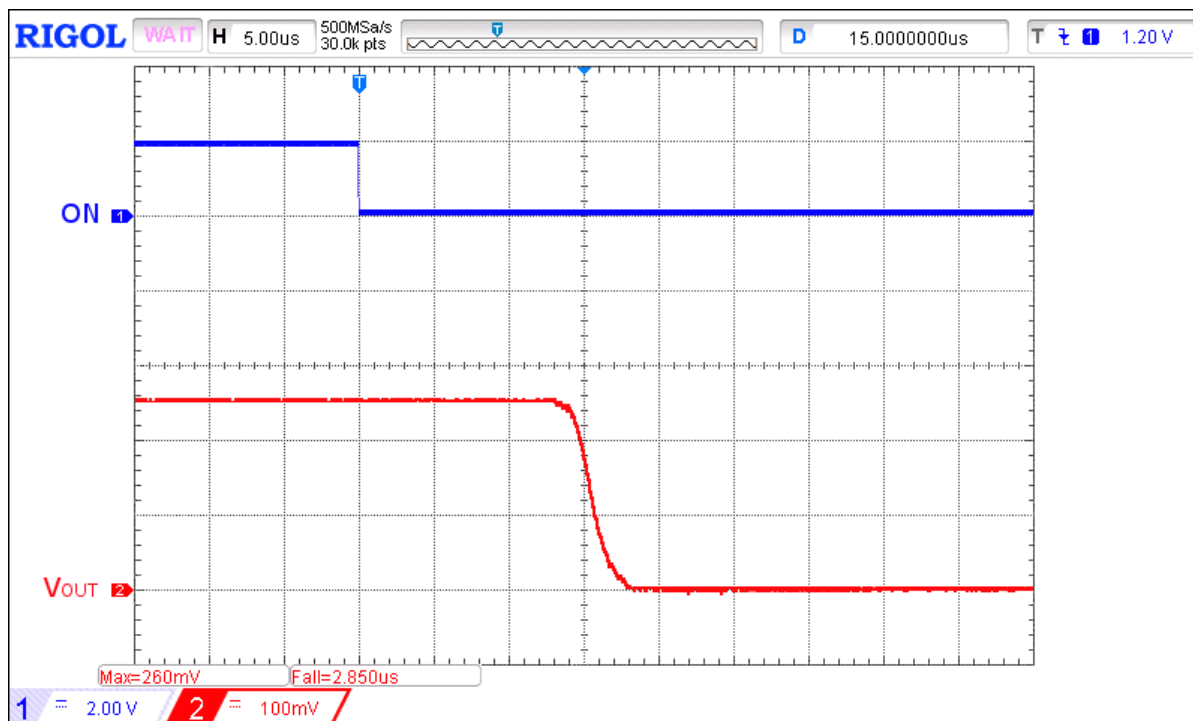


Figure 11. Typical Turn OFF operation waveform for $V_{DD} = 2.7$ V, $V_{IN} = 0.25$ V, no C_{LOAD} , $R_{LOAD} = 1$ k Ω

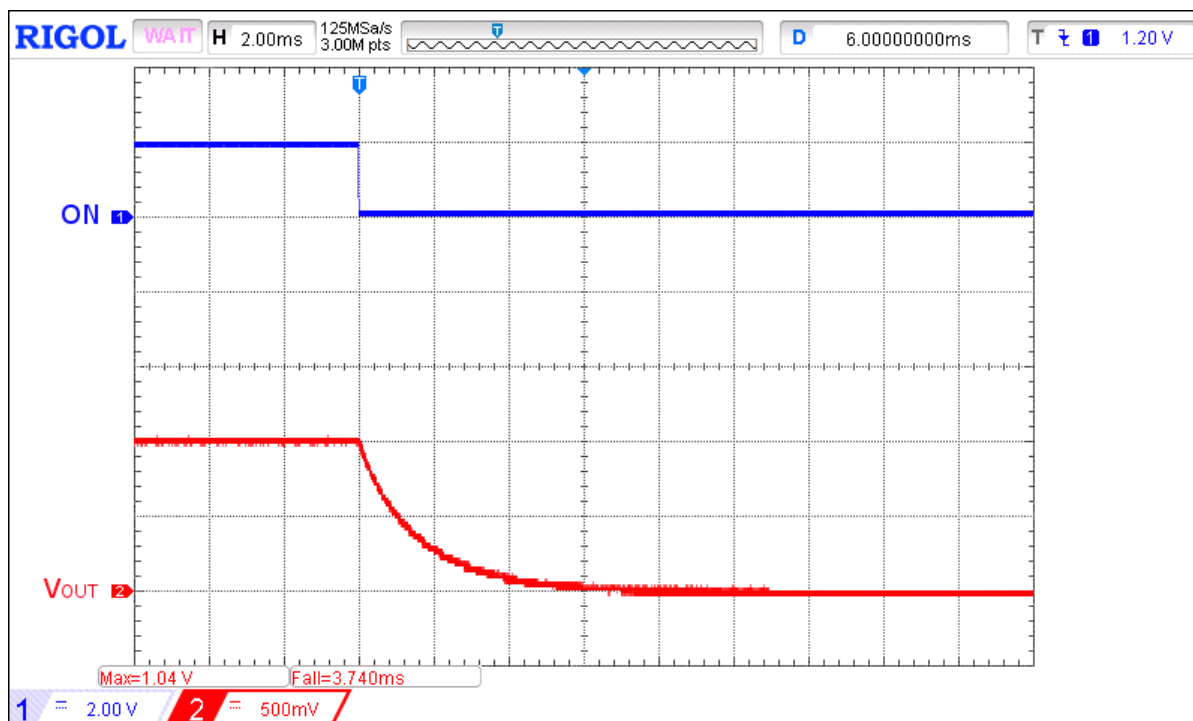


Figure 12. Typical Turn OFF operation waveform for $V_{DD} = 2.7$ V, $V_{IN} = 1$ V, $C_{LOAD} = 10$ μ F, $R_{LOAD} = 1$ k Ω

An Ultra-low Power, $R_{DS(ON)}$ 18 m Ω , 1 A, 0.82 mm² WLCSP
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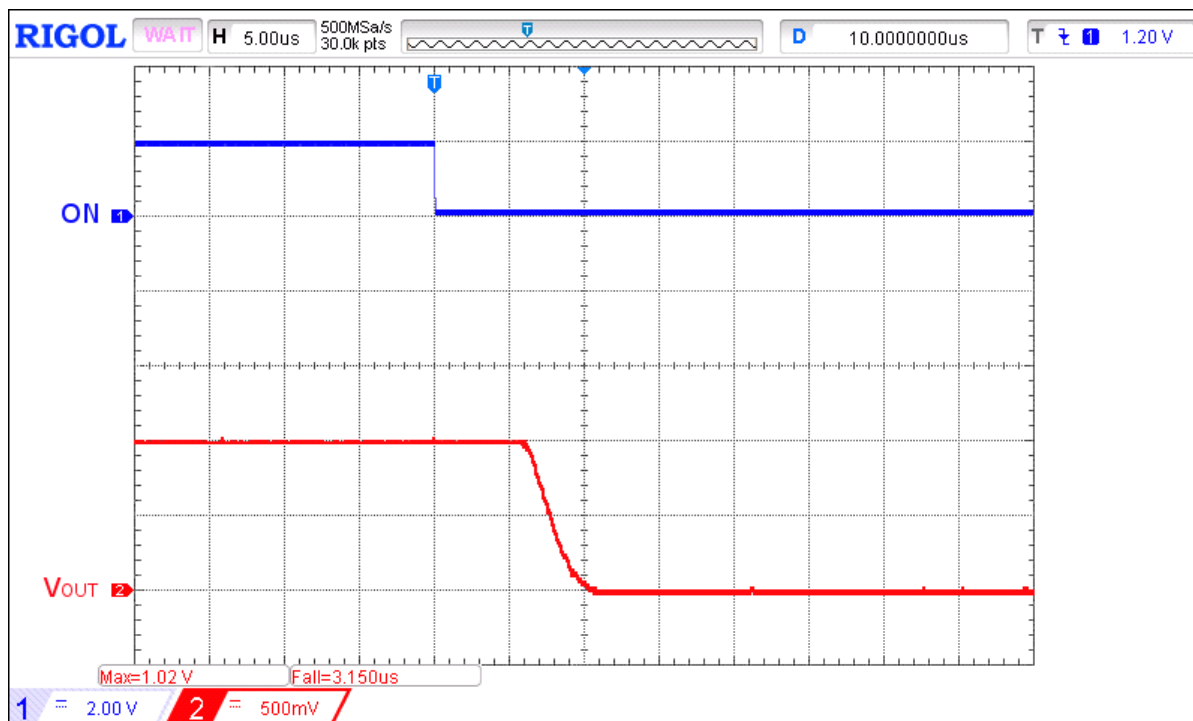


Figure 13. Typical Turn OFF operation waveform for $V_{DD} = 2.7$ V, $V_{IN} = 1$ V, no C_{LOAD} , $R_{LOAD} = 1$ k Ω

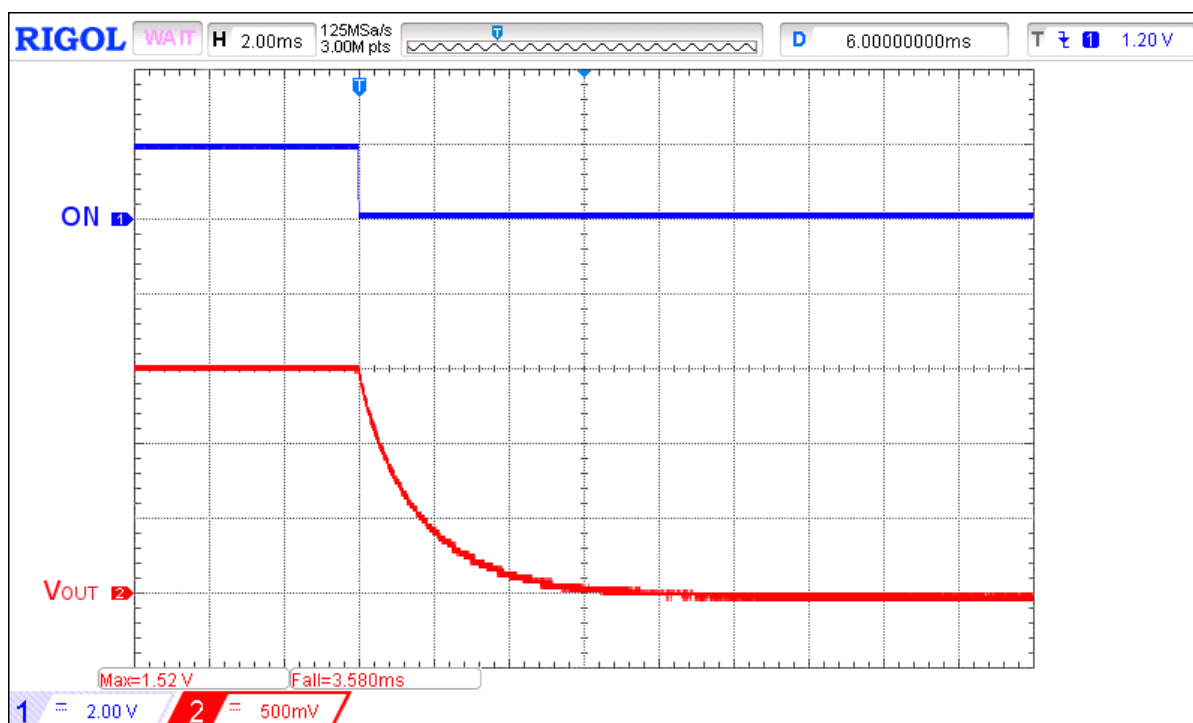


Figure 14. Typical Turn OFF operation waveform for $V_{DD} = 2.7$ V, $V_{IN} = 1.5$ V, $C_{LOAD} = 10$ μ F, $R_{LOAD} = 1$ k Ω

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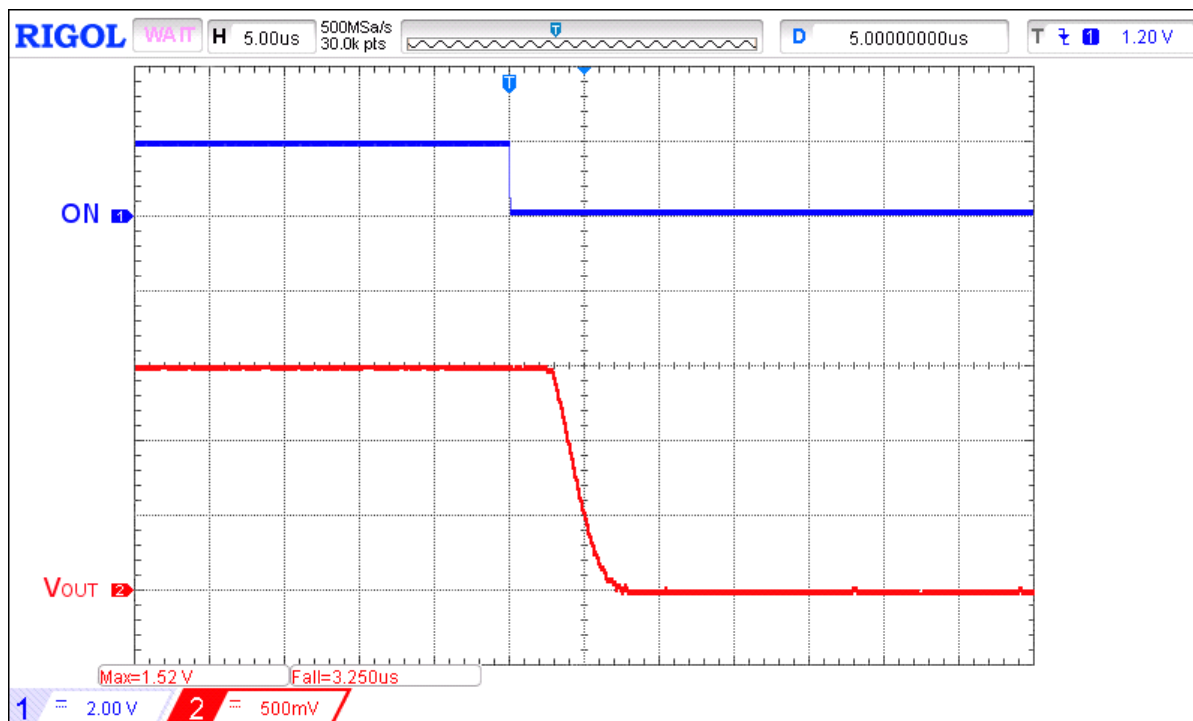


Figure 15. Typical Turn OFF operation waveform for $V_{DD} = 2.7\text{ V}$, $V_{IN} = 1.5\text{ V}$, no C_{LOAD} , $R_{LOAD} = 1\text{ k}\Omega$

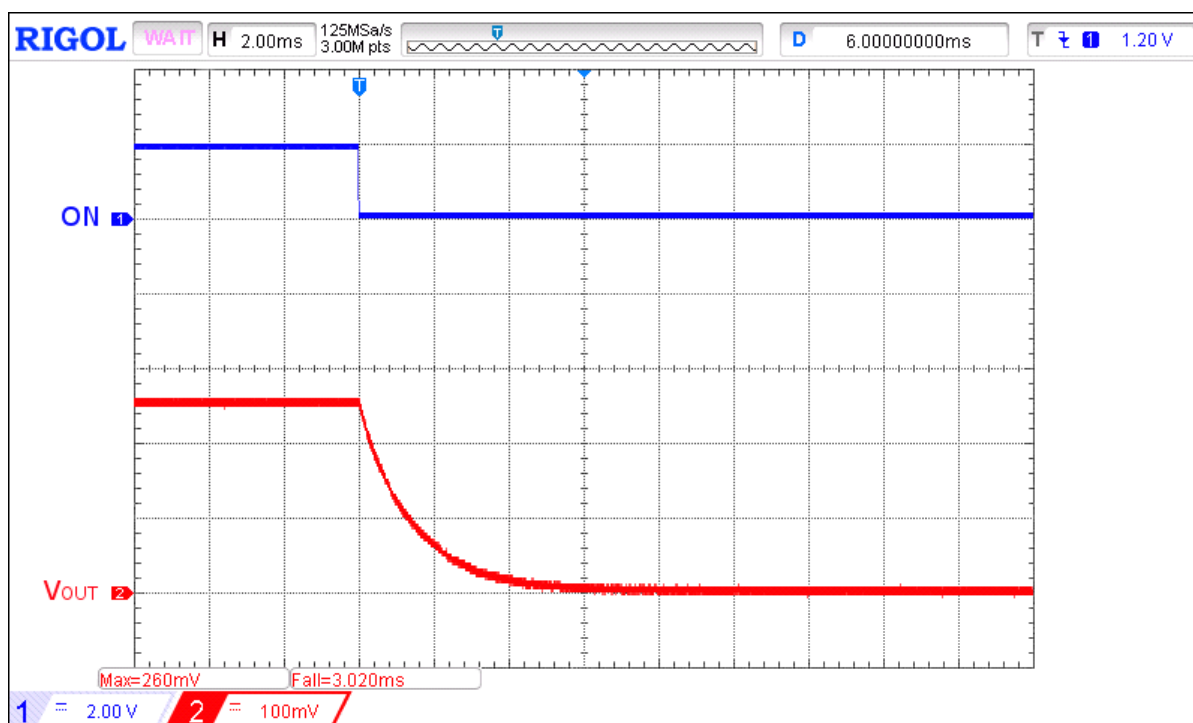


Figure 16. Typical Turn OFF operation waveform for $V_{DD} = 3\text{ V}$, $V_{IN} = 0.25\text{ V}$, $C_{LOAD} = 10\text{ }\mu\text{F}$, $R_{LOAD} = 1\text{ k}\Omega$

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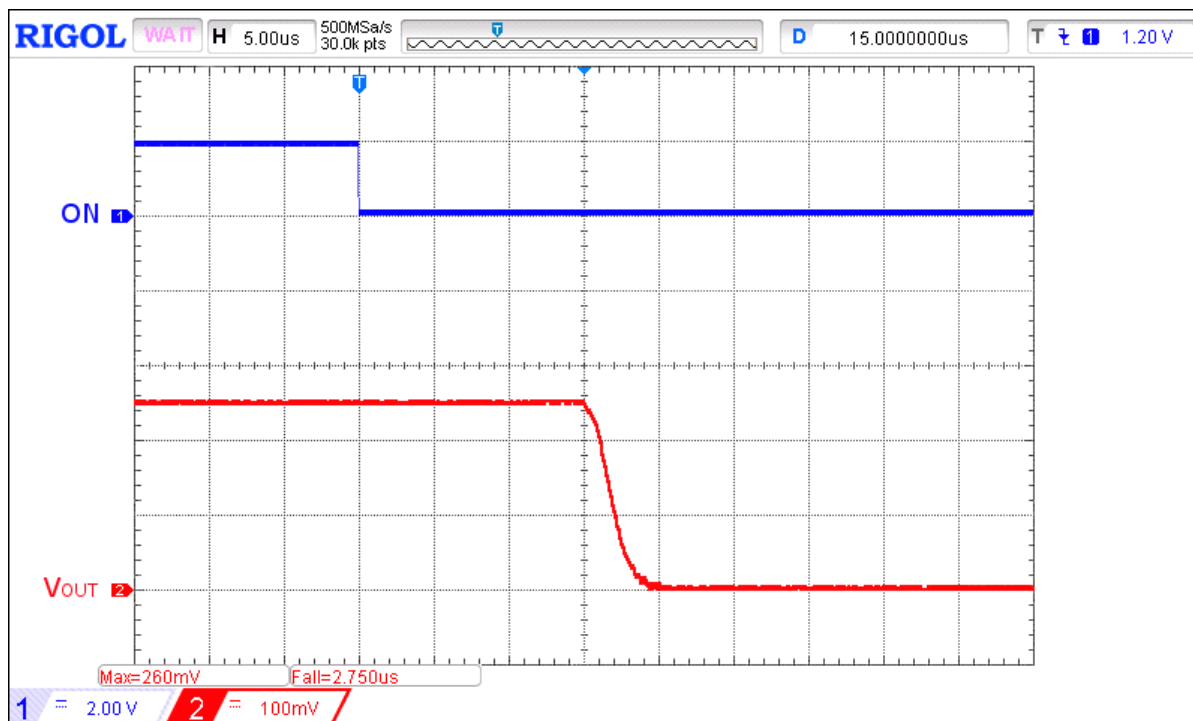


Figure 17. Typical Turn OFF operation waveform for $V_{DD} = 3\text{ V}$, $V_{IN} = 0.25\text{ V}$, no C_{LOAD} , $R_{LOAD} = 1\text{ k}\Omega$

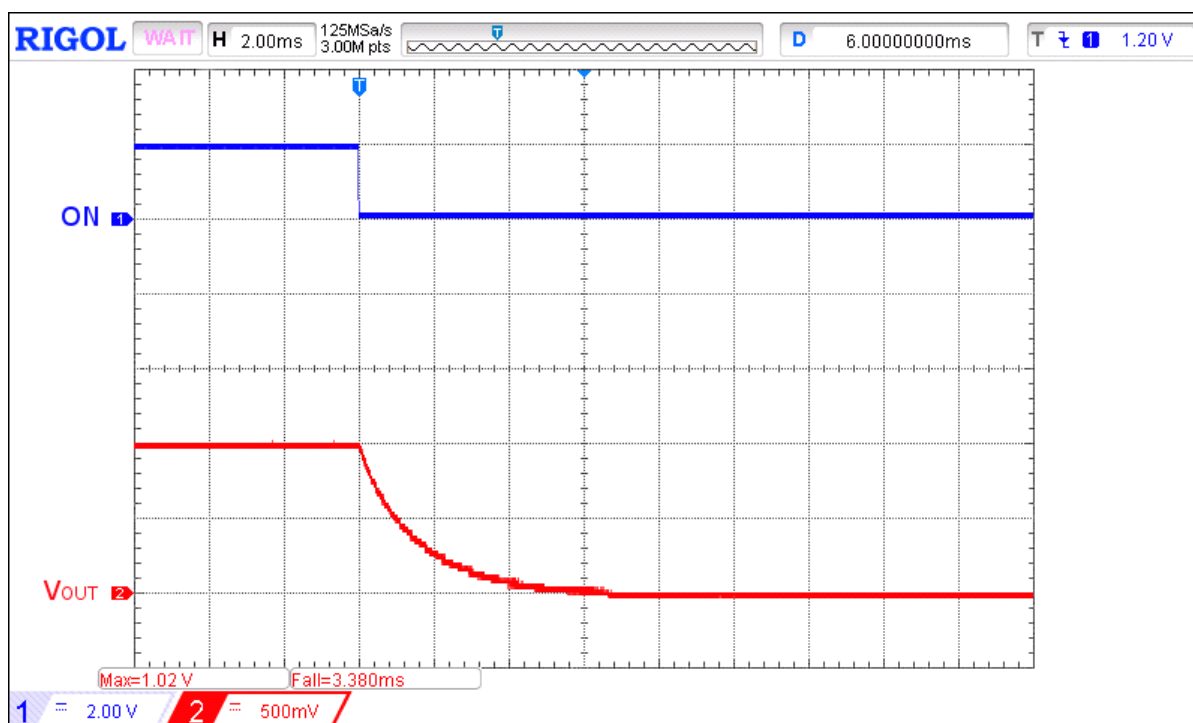


Figure 18. Typical Turn OFF operation waveform for $V_{DD} = 3\text{ V}$, $V_{IN} = 1\text{ V}$, $C_{LOAD} = 10\text{ }\mu\text{F}$, $R_{LOAD} = 1\text{ k}\Omega$

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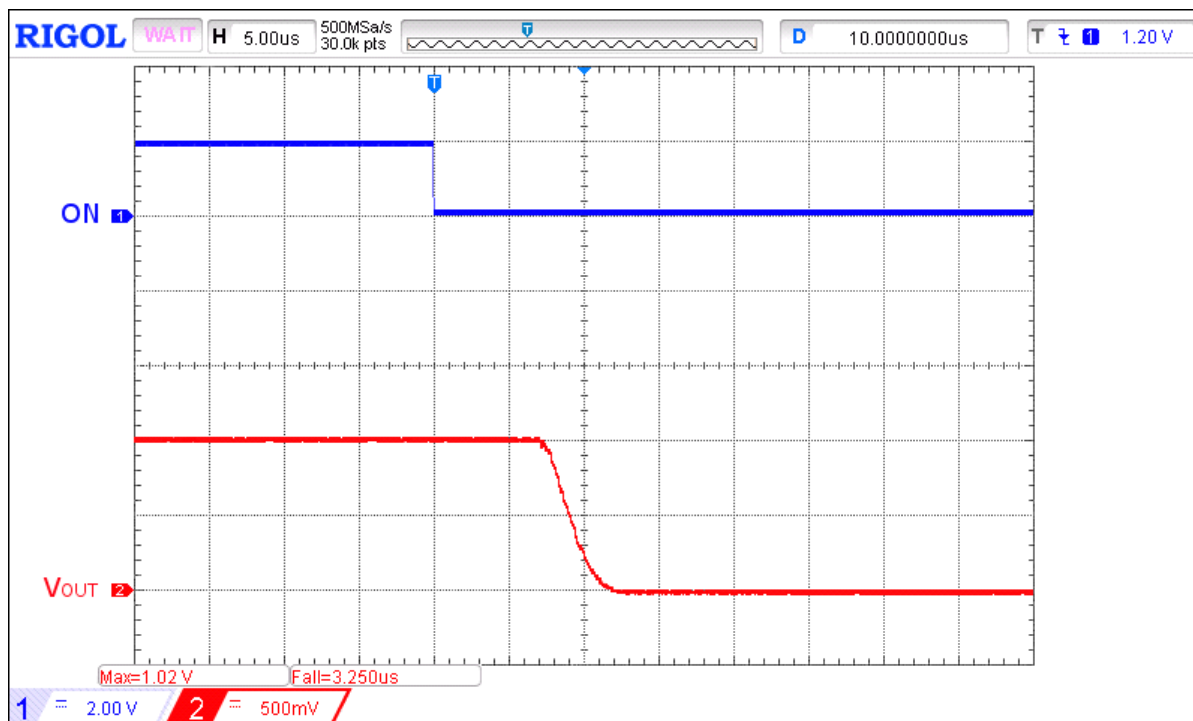


Figure 19. Typical Turn OFF operation waveform for $V_{DD} = 3\text{ V}$, $V_{IN} = 1\text{ V}$, no C_{LOAD} , $R_{LOAD} = 1\text{ k}\Omega$

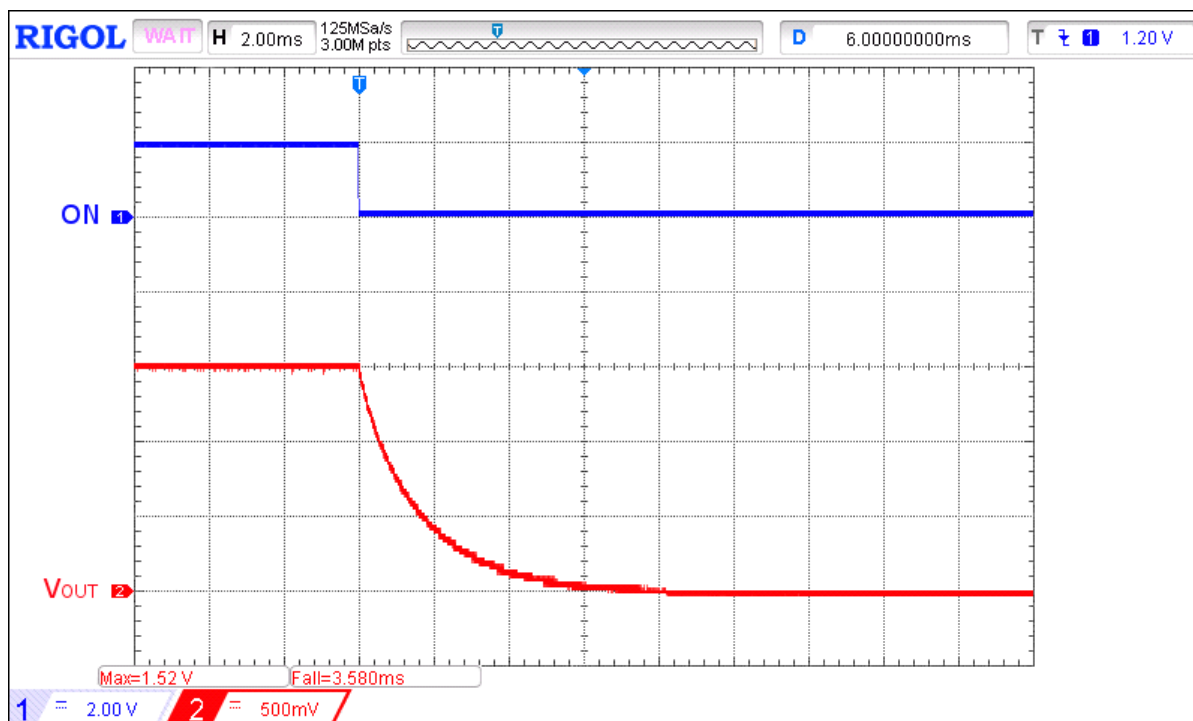


Figure 20. Typical Turn OFF operation waveform for $V_{DD} = 3\text{ V}$, $V_{IN} = 1.5\text{ V}$, $C_{LOAD} = 10\text{ }\mu\text{F}$, $R_{LOAD} = 1\text{ k}\Omega$

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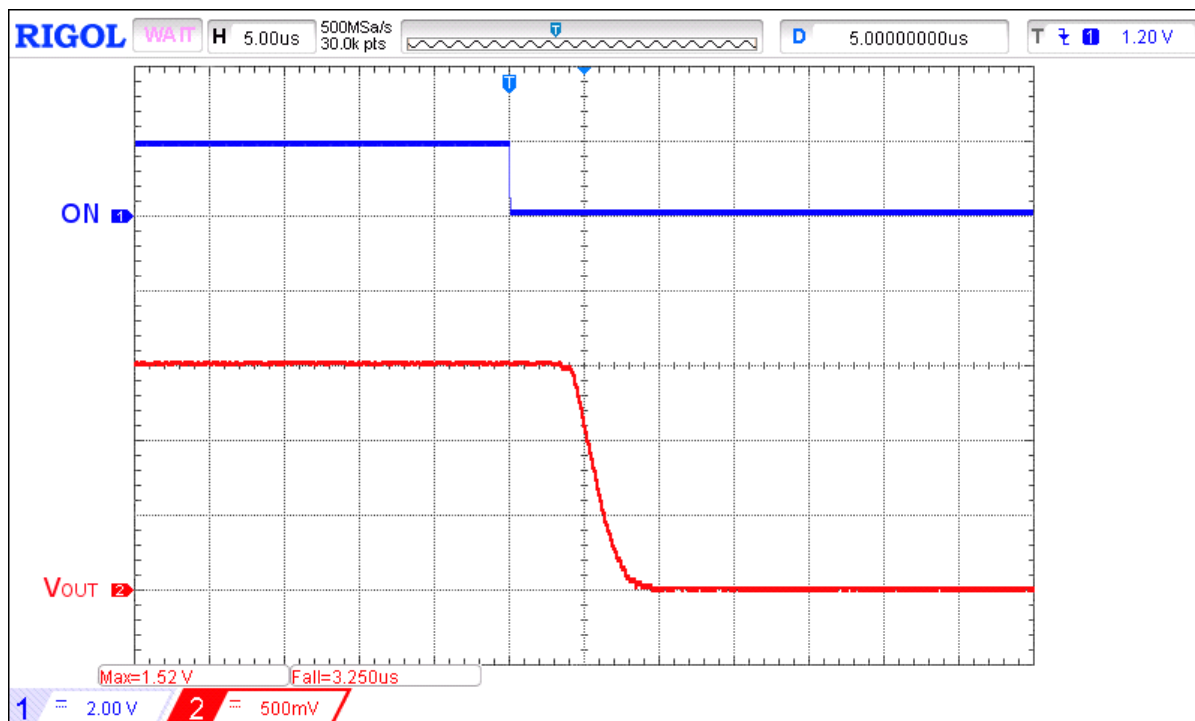


Figure 21. Typical Turn OFF operation waveform for $V_{DD} = 3\text{ V}$, $V_{IN} = 1.5\text{ V}$, no C_{LOAD} , $R_{LOAD} = 1\text{ k}\Omega$

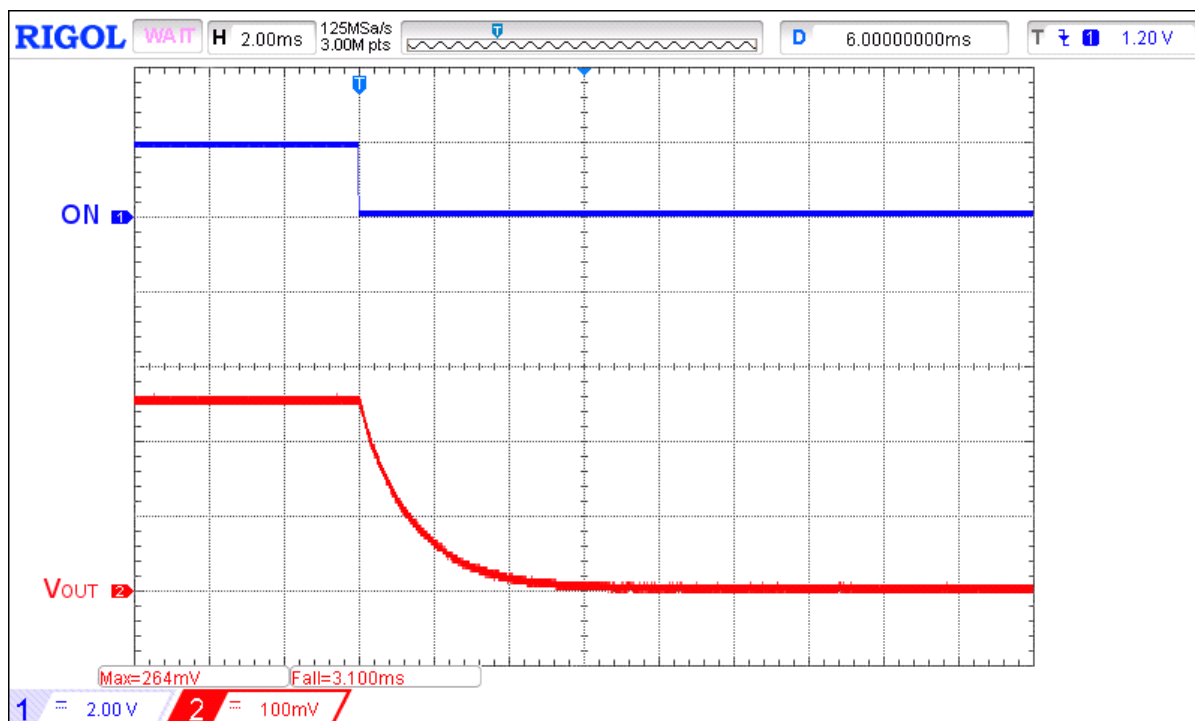


Figure 22. Typical Turn OFF operation waveform for $V_{DD} = 3.6\text{ V}$, $V_{IN} = 0.25\text{ V}$, $C_{LOAD} = 10\text{ }\mu\text{F}$, $R_{LOAD} = 1\text{ k}\Omega$

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 Integrated Power Switch with 550 μ s Total Turn-on Time

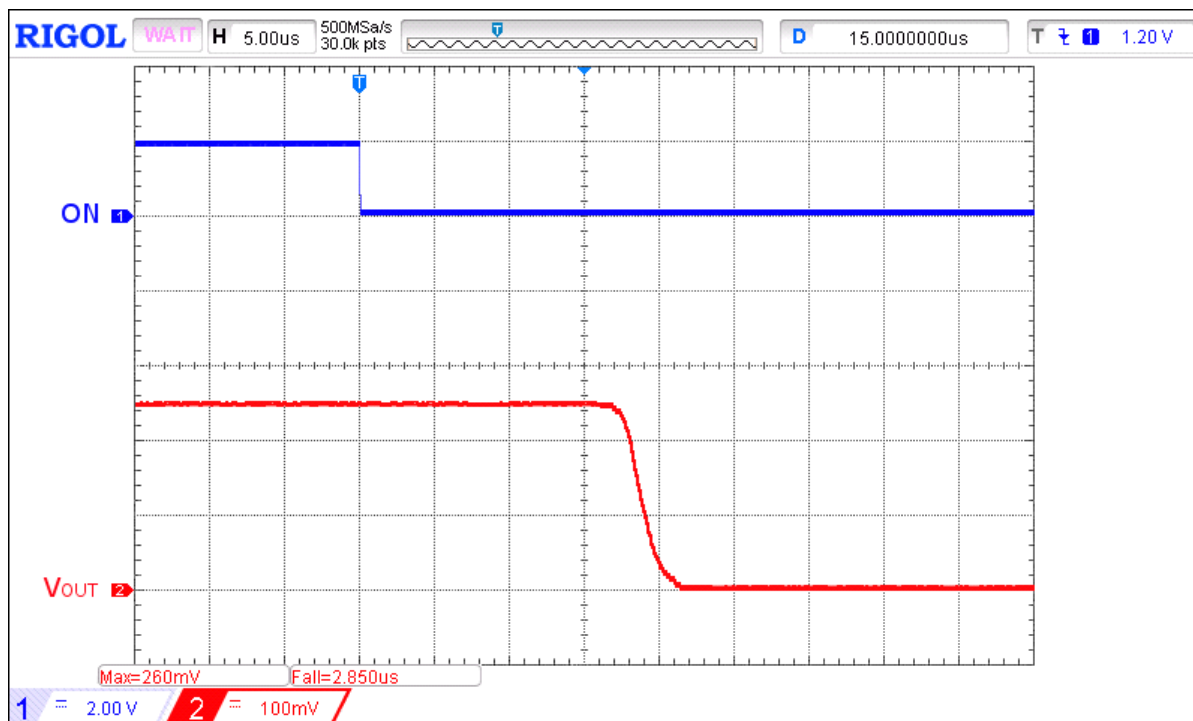


Figure 23. Typical Turn OFF operation waveform for $V_{DD} = 3.6$ V, $V_{IN} = 0.25$ V, no C_{LOAD} , $R_{LOAD} = 1$ k Ω

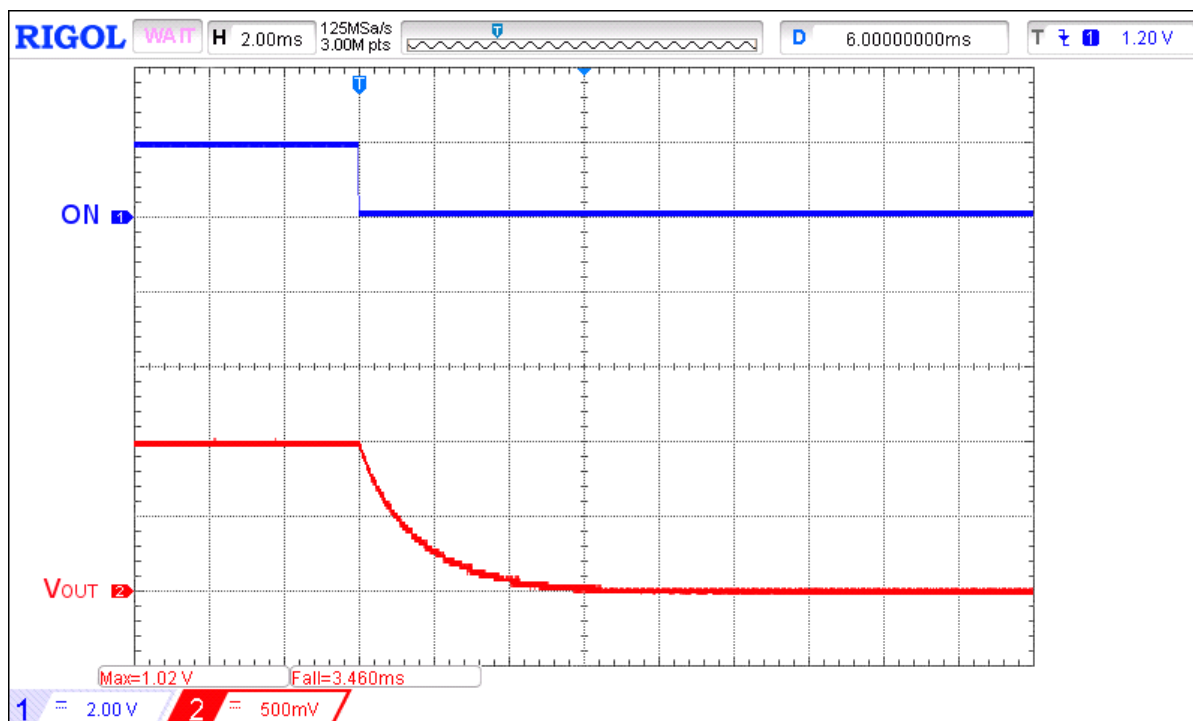


Figure 24. Typical Turn OFF operation waveform for $V_{DD} = 3.6$ V, $V_{IN} = 1$ V, $C_{LOAD} = 10$ μ F, $R_{LOAD} = 1$ k Ω

An Ultra-low Power, $R_{DS(ON)} 18\text{ m}\Omega$, 1 A, 0.82 mm^2 WLCSP
 Integrated Power Switch with 550 μs Total Turn-on Time

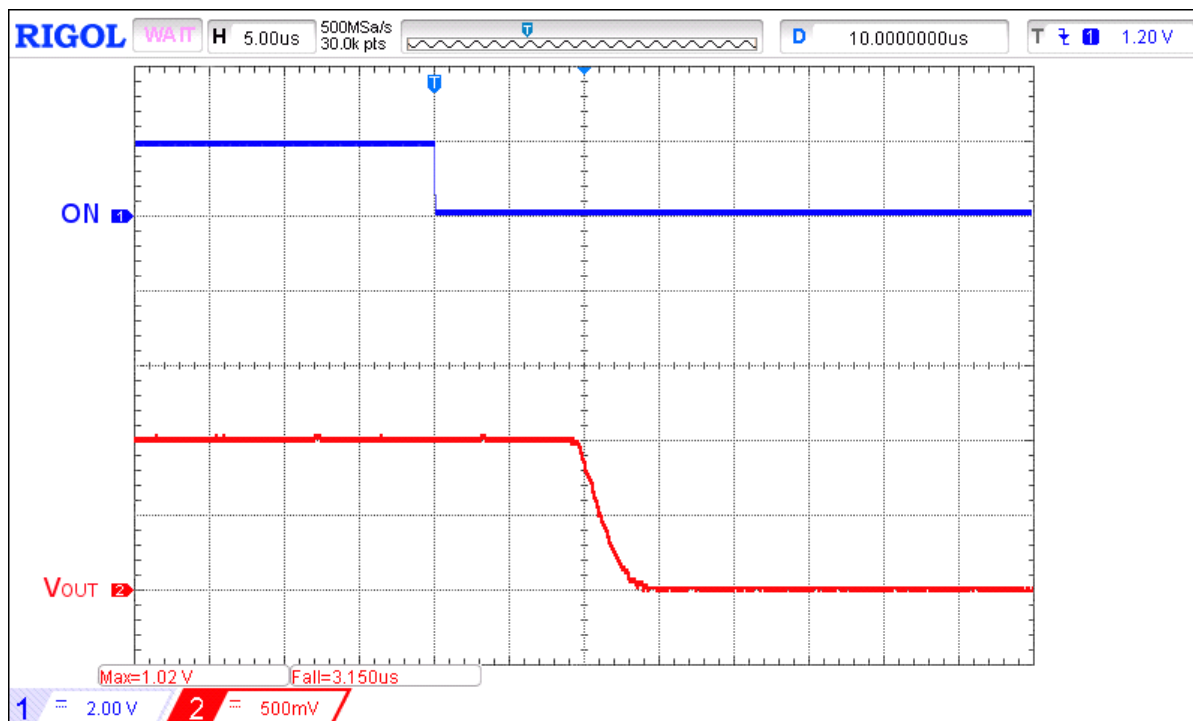


Figure 25. Typical Turn OFF operation waveform for $V_{DD} = 3.6\text{ V}$, $V_{IN} = 1\text{ V}$, no C_{LOAD} , $R_{LOAD} = 1\text{ k}\Omega$

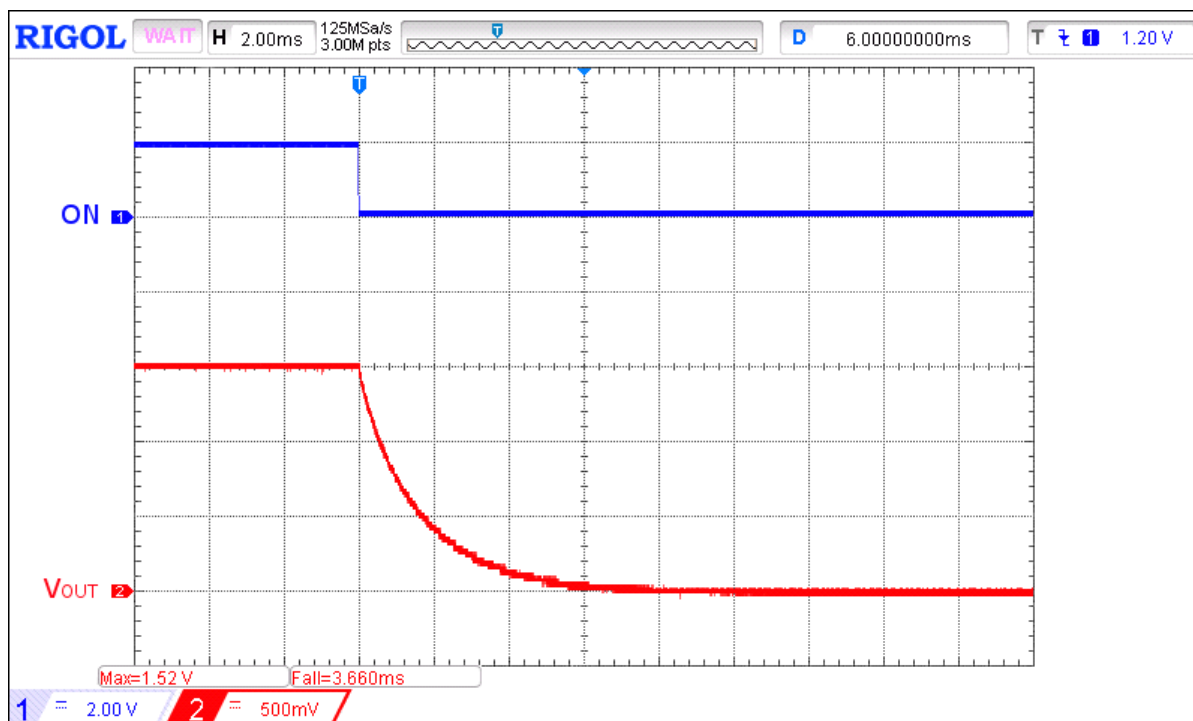


Figure 26. Typical Turn OFF operation waveform for $V_{DD} = 3.6\text{ V}$, $V_{IN} = 1.5\text{ V}$, $C_{LOAD} = 10\text{ }\mu\text{F}$, $R_{LOAD} = 1\text{ k}\Omega$

An Ultra-low Power, $R_{DS(on)}$ 18 m Ω , 1 A, 0.82 mm² WLCSP
 Integrated Power Switch with 550 μ s Total Turn-on Time

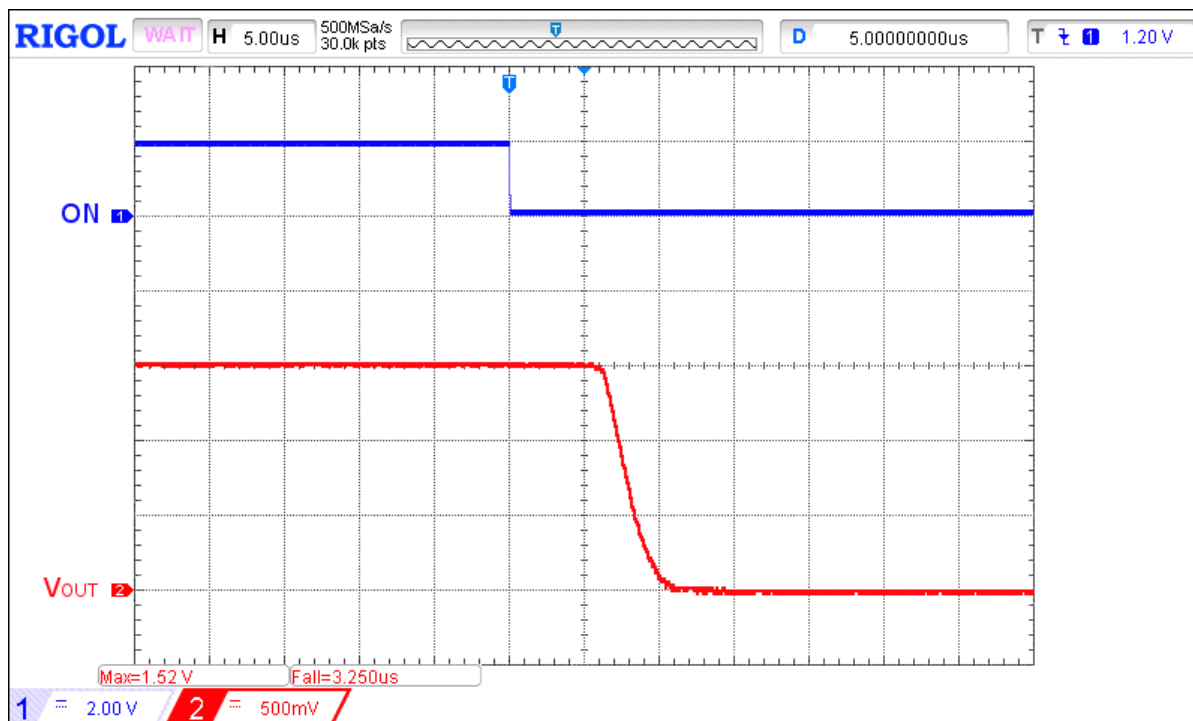


Figure 27. Typical Turn OFF operation waveform for $V_{DD} = 3.6$ V, $V_{IN} = 1.5$ V, no C_{LOAD} , $R_{LOAD} = 1$ k Ω

An Ultra-low Power, $R_{DS_{ON}}$ 18 m Ω , 1 A, 0.82 mm² WLCSP Integrated Power Switch with 550 μ s Total Turn-on Time

Applications Information

SLG59M1742C Power-Up/Power-Down Sequence Considerations

During V_{DD} power-up operation, SLG59M1742Cs internal circuitry is activated once V_{DD} crosses 1 V, but the switch will not be turned on if ON = 0. Once V_{DD} has reached 90% of its steady-state value (and within SLG59M1742C's nominal supply voltage range of 2.7 V to 3.6 V), the ON pin can then be toggled LOW-to-HIGH to close the switch.

A nominal power-up sequence is to apply V_{DD} first, followed by V_{IN} only after V_{DD} is > 2.7 V, and finally toggling the ON pin LOW-to-HIGH after V_{IN} is at least 90% of its final value.

A nominal power-down sequence is the power-up sequence in reverse order.

If V_{DD} and V_{IN} are applied at the same time, a voltage glitch may appear on the output pin at V_{OUT} . To prevent glitches at the output, it is recommended to connect at least 1 μ F capacitor from the V_{OUT} pin to GND and to keep the V_{DD} & V_{IN} ramp times higher than 2 ms.

As illustrated in the typical performance transient scope captures, the V_{OUT} output follows a linear ramp when the power switch is turned on.

If ON and VDD are tied together and powered up, the IPS can be turned on, but the behavior may differ from datasheet specifications.

Power Dissipation

The junction temperature of the SLG59M1742C depends on different factors such as board layout, ambient temperature, and other environmental factors. The primary contributor to the increase in the junction temperature of the SLG59M1742C is the power dissipation of its power MOSFET. Its power dissipation and the junction temperature in nominal operating mode can be calculated using the following equations:

$$P_D = R_{DS_{ON}} \times I_{DS}^2 + V_{DD} \times I_{DD_Q2}$$

where:

P_D = Power dissipation, in Watts (W)

$R_{DS_{ON}}$ = Power MOSFET ON resistance, in Ohms (Ω)

I_{DS} = Output current, in Amps (A)

V_{DD} = Applied Supply Voltage, in Volts (V)

I_{DD_Q2} = IC's Supply Current, in Amps (A)

and

$$T_J = P_D \times \theta_{JA} + T_A$$

where:

T_J = Junction temperature, in Celsius degrees ($^{\circ}$ C)

θ_{JA} = Package thermal resistance, in Celsius degrees per Watt ($^{\circ}$ C/W)

T_A = Ambient temperature, in Celsius degrees ($^{\circ}$ C)

An Ultra-low Power, $R_{DS(ON)}$ 18 m Ω , 1 A, 0.82 mm² WLCSP
Integrated Power Switch with 550 μ s Total Turn-on Time

Package Top Marking System Definition



NNN - Serial Number Code Field¹

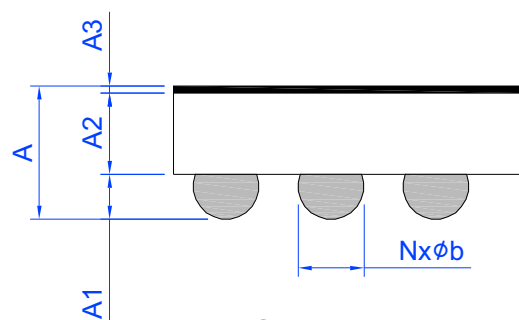
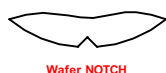
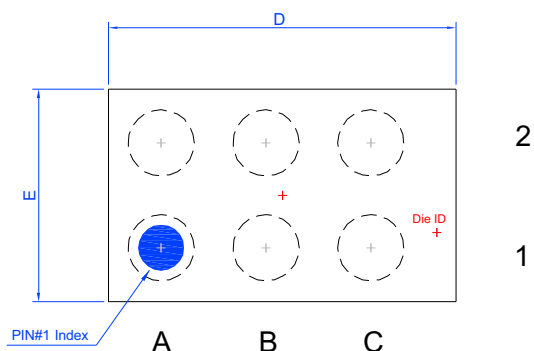
Note 1: Each character in code field can be alphanumeric A-Z and 0-9

An Ultra-low Power, $R_{DS(on)}$ 18 m Ω , 1 A, 0.82 mm² WLCSP
Integrated Power Switch with 550 μ s Total Turn-on Time

Package Drawing and Dimensions

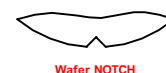
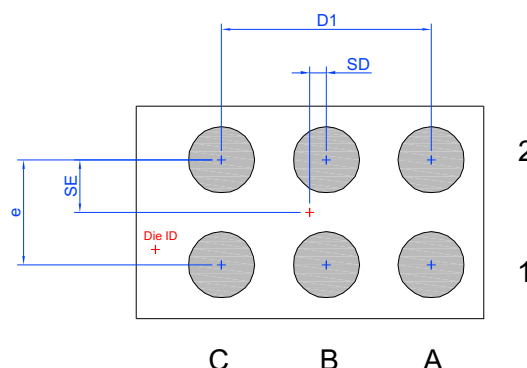
6 Pin WLCSP Green Package 0.71 x 1.16 mm

Laser Marking View



SIDE View

Bump View



UNIT: mm							
Symbol	Min.	Nom.	Max.	Symbol	Min.	Nom.	Max.
A	0.390	0.445	0.500	D	1.130	1.160	1.190
A1	0.125	0.150	0.175	E	0.680	0.710	0.740
A2	0.245	0.270	0.295	e	0.35 BSC		
A3	0.020	0.025	0.030	D1	0.70 BSC		
b	0.195	0.220	0.245	SD	0.055 BSC		
N	6 (bump)			SE	0.175 BSC		

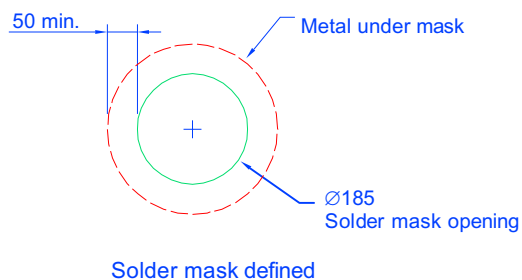
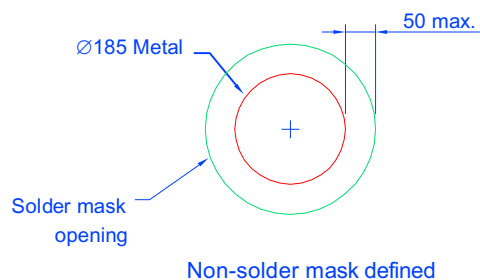
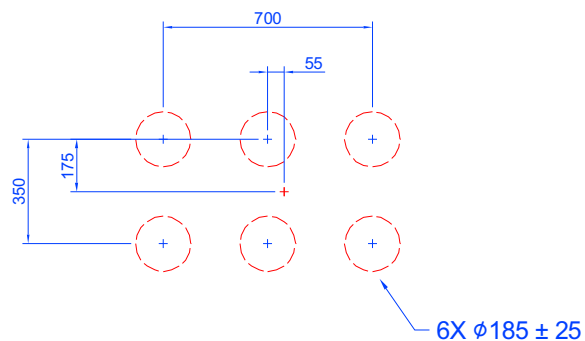
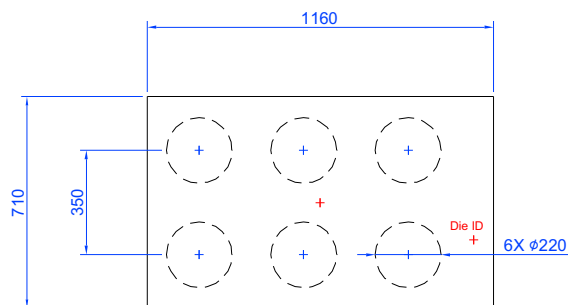
SLG59M1742C

An Ultra-low Power, $R_{DS(on)}$ 18 m Ω , 1 A, 0.82 mm² WLCSP
Integrated Power Switch with 550 μ s Total Turn-on Time

SLG59M1742C 6 Pin WLCSP PCB Landing Pattern

 Exposed Bump
(Laser marking view)

 Recommended
Land Pattern



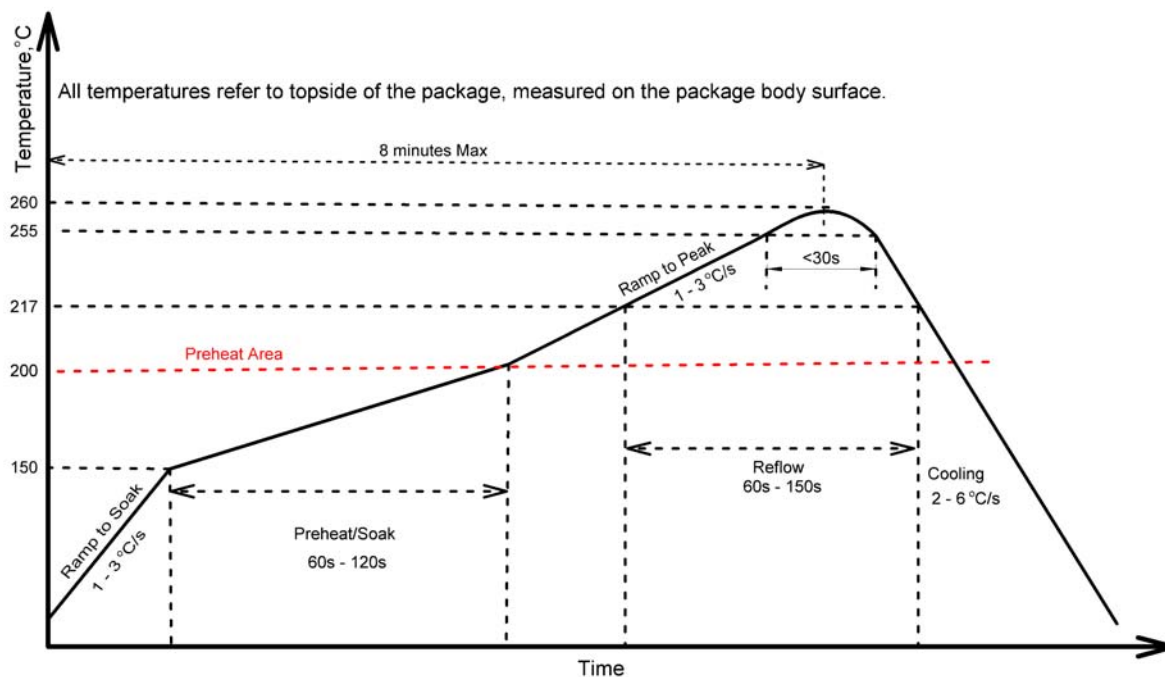
Solder mask detail (not to scale)

Unit: μ m

An Ultra-low Power, $R_{DS(on)}$ 18 m Ω , 1 A, 0.82 mm² WLCSP
 Integrated Power Switch with 550 μ s Total Turn-on Time

Recommended Reflow Soldering Profile

For successful reflow of the SLG59M1742C a recommended thermal profile is illustrated below:



Note: This reflow profile is for classification/preconditioning and are not meant to specify board assembly profile. Actual board assembly profiles should be developed based on specific process needs and board designs and should not exceed parameters depicted on figure above.

Please see more information on IPC/JEDEC J-STD-020: latest revision for reflow profile based on package volume of 0.352 mm³ (nominal).

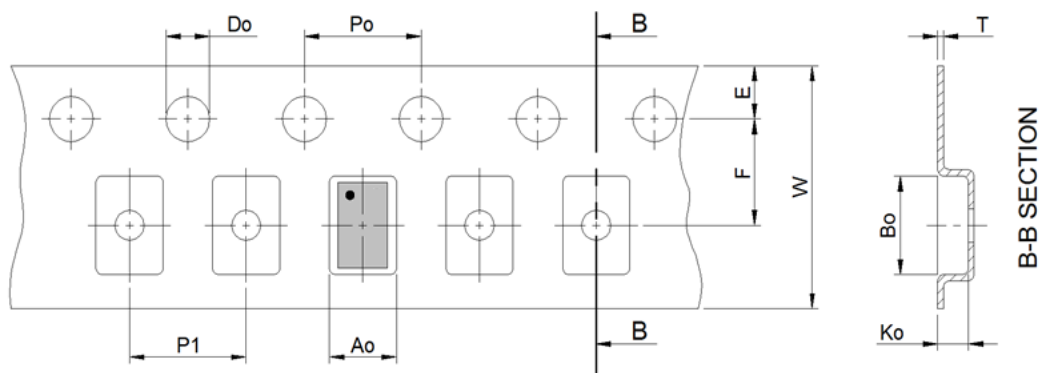
An Ultra-low Power, $R_{DS(ON)}$ 18 m Ω , 1 A, 0.82 mm² WLCSP
 Integrated Power Switch with 550 μ s Total Turn-on Time

Tape and Reel Specifications

Package Type	# of Pins	Nominal Package Size [mm]	Max Units		Reel & Hub Size [mm]	Leader (min)		Trailer (min)		Tape Width [mm]	Part Pitch [mm]
			per Reel	per Box		Pockets	Length [mm]	Pockets	Length [mm]		
WLCSP 6L 0.71 x 1.16 mm 0.35P Green	6	0.71 x 1.16	3000	3000	178/60	100	400	100	400	8	4

Carrier Tape Drawing and Dimensions

Package Type	Pocket BTM Length	Pocket BTM Width	Pocket Depth	Index Hole Pitch	Pocket Pitch	Index Hole Diameter	Index Hole to Tape Edge	Index Hole to Pocket Center	Tape Width
	A0	B0	K0	P0	P1	D0	E	F	W
WLCSP 6L 0.71 x 1.16 mm 0.35P Green	0.77	1.22	0.53	4	4	1.5	1.75	3.5	0.2



Refer to EIA-481 specification

SLG59M1742C



An Ultra-low Power, $R_{DS(ON)}$ 18 m Ω , 1 A, 0.82 mm² WLCSP
Integrated Power Switch with 550 μ s Total Turn-on Time

Revision History

Date	Version	Change
5/30/2018	1.00	Production Release