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FAN73932

Half-Bridge Gate Drive IC

Features

- Floating Channel for Bootstrap Operation to +600V
- Typically 2.5A/2.5A Sourcing/Sinking Current Driving Capability
- Extended Allowable Negative V_S Swing to -9.8V for Signal Propagation at $V_{BS}=15V$
- High-Side Output in Phase of IN Input Signal
- 3.3V and 5V Input Logic Compatible
- Matched Propagation Delay for Both Channels
- Built-in Shutdown Function
- Built-in UVLO Functions for Both Channels
- Built-in Common-Mode dv/dt Noise Canceling Circuit
- Internal 400ns Minimum Dead-Time

Applications

- High-Speed Power MOSFET and IGBT Gate Driver
- Induction Heating
- High-Power DC-DC Converter
- Synchronous Step-Down Converter
- Motor Drive Inverter

Description

The FAN73932 is a half-bridge, gate-drive IC with shut-down and dead-time functions which can drive high-speed MOSFETs and IGBTs that operate up to +600V. It has a buffered output stage with all NMOS transistors designed for high pulse current driving capability and minimum cross-conduction.

Fairchild's high-voltage process and common-mode noise canceling techniques provide stable operation of the high-side driver under high dv/dt noise circumstances. An advanced level-shift circuit offers high-side gate driver operation up to $V_S=-9.8V$ (typical) for $V_{BS}=15V$.


The UVLO circuit prevents malfunction when V_{DD} and V_{BS} are lower than the specified threshold voltage.

The high-current and low-output voltage drop feature makes this device suitable for all kinds of half- and full-bridge inverters, like motor drive inverter, switching mode power supply, induction heating, and high-power DC-DC converter applications.

8-SOP



Ordering Information

Part Number	Package	Operating Temperature Range	 Eco Status	Packing Method
FAN73932M	8-SOP	-40°C to +125°C	RoHS	Tube
FAN73932MX				Tape & Reel



For Fairchild's definition of Eco Status, please visit: http://www.fairchildsemi.com/company/green/rohs_green.html.

Typical Application Diagrams

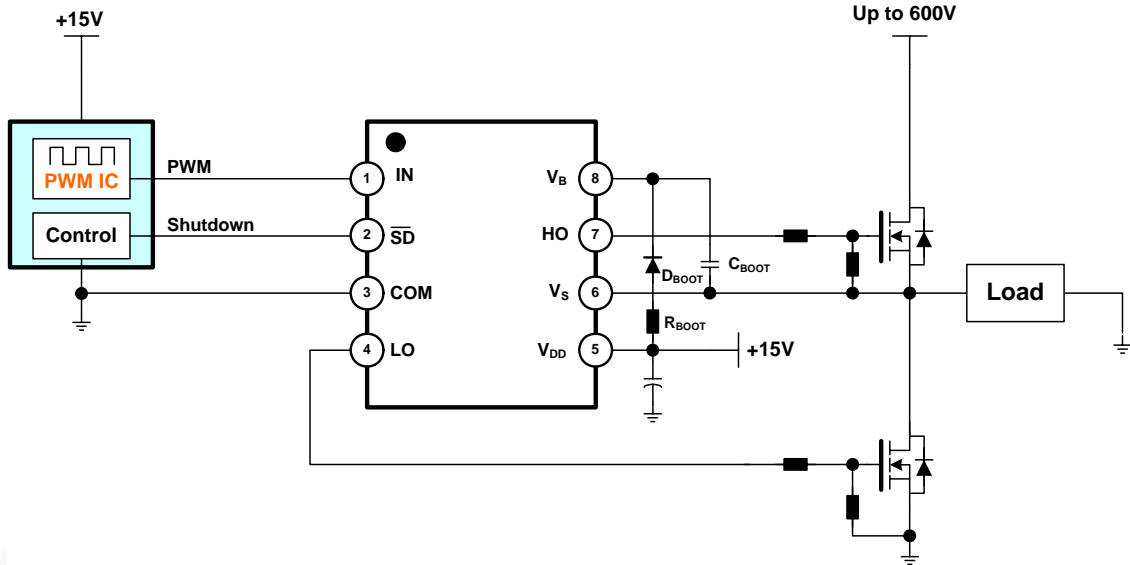


Figure 1. Typical Application Circuit

Internal Block Diagram

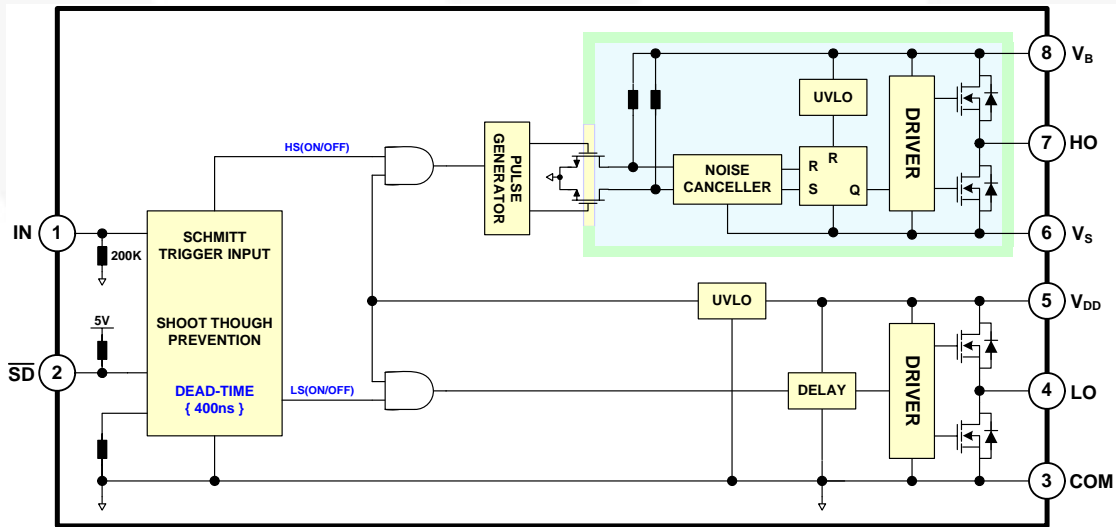


Figure 2. Functional Block Diagram

Pin Configuration

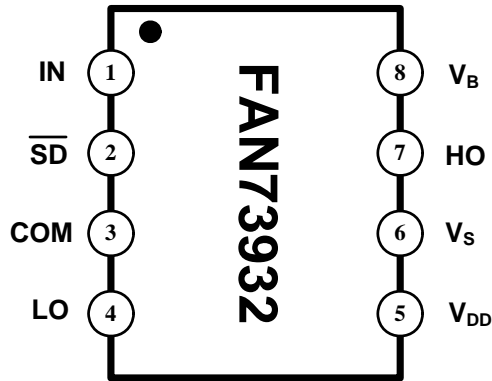


Figure 3. Pin Configuration (Top View)

Pin Definitions

Pin #	Name	Description
1	IN	Logic Input for High-Side and Low-Side Gate Driver Output, In-Phase with HO
2	$\overline{\text{SD}}$	Logic Input for Shutdown
3	COM	Ground
4	LO	Low-Side Driver Return
5	V_{DD}	Supply Voltage
6	V_{S}	High-Voltage Floating Supply Return
7	HO	High-Side Driver Output
8	V_{B}	High-Side Floating Supply

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. $T_A=25^{\circ}\text{C}$ unless otherwise specified.

Symbol	Parameter	Min.	Max.	Unit
V_B	High-Side Floating Supply Voltage	-0.3	625.0	V
V_S	High-Side Floating Offset Voltage	$V_B-25.0$	$V_B+0.3$	V
V_{HO}	High-Side Floating Output Voltage	$V_S-0.3$	$V_B+0.3$	V
V_{LO}	Low-Side Output Voltage	-0.3	$V_{DD}+0.3$	V
V_{DD}	Low-Side and Logic Fixed Supply Voltage	-0.3	25.0	V
V_{IN}	Logic Input Voltage (IN)	-0.3	$V_{DD}+0.3$	V
V_{SD}	Logic Input Voltage (\overline{SD})	-0.3	5.5	V
COM	Logic Ground and Low-Side Driver Return	$V_{DD}-25.0$	$V_{DD}+0.3$	V
dV_S/dt	Allowable Offset Voltage Slew Rate		± 50	V/ns
P_D	Power Dissipation ^(1, 2, 3)		0.625	W
θ_{JA}	Thermal Resistance		200	$^{\circ}\text{C}/\text{W}$
T_J	Junction Temperature		+150	$^{\circ}\text{C}$
T_{STG}	Storage Temperature	-55	+150	$^{\circ}\text{C}$

Notes:

- Mounted on 76.2 x 114.3 x 1.6mm PCB (FR-4 glass epoxy material).
- Refer to the following standards:
 JESD51-2: Integral circuits thermal test method environmental conditions - natural convection;
 JESD51-3: Low effective thermal conductivity test board for leaded surface mount packages
- Do not exceed P_D under any circumstances.

Recommended Operating Conditions

The Recommended Operating Conditions table defines the conditions for actual device operation. Recommended operating conditions are specified to ensure optimal performance to the datasheet specifications. Fairchild does not recommend exceeding them or designing to absolute maximum ratings.

Symbol	Parameter	Min.	Max.	Unit
V_B	High-Side Floating Supply Voltage	V_S+10	V_S+20	V
V_S	High-Side Floating Supply Offset Voltage	$6-V_{DD}$	600	V
V_{HO}	High-Side Output Voltage	V_S	V_B	V
V_{DD}	Low-Side and Logic Fixed Supply Voltage	10	20	V
V_{LO}	Low-Side Output Voltage	COM	V_{DD}	V
V_{IN}	Logic Input Voltage (IN)	COM	V_{DD}	V
V_{SD}	Logic Input Voltage (\overline{SD}) ⁽⁴⁾	COM	5	V
T_A	Operating Ambient Temperature	-40	+125	$^{\circ}\text{C}$

Note:

- Shutdown (\overline{SD}) input is internally clamped with 5.2V.

Electrical Characteristics

$V_{BIAS}(V_{DD}, V_{BS})=15.0V$, $COM=0V$, and $T_A = 25^\circ C$, unless otherwise specified. The V_{IN} and I_{IN} parameters are referenced to COM and are applicable to the respective input leads: IN and SD. The V_O and I_O parameters are referenced to COM and are applicable to the respective output leads: HO and LO.

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
POWER SUPPLY SECTION						
I_{QDD}	Quiescent V_{DD} Supply Current	$V_{IN}=0V, \overline{SD}=5V$		320	700	μA
I_{QBS}	Quiescent V_{BS} Supply Current	$V_{IN}=0V$ or $5V, \overline{SD}=5V$		50	120	μA
I_{PDD}	Operating V_{DD} Supply Current	$f_{IN}=20KHz$, No Load, $\overline{SD}=5V$		700	1300	μA
I_{PBS}	Operating V_{BS} Supply Current	$C_L=1nF, f_{IN}=20KHz, rms,$ $\overline{SD}=5V$		420	800	μA
I_{SD}	Shutdown mode Supply Current	$\overline{SD}=0V, \overline{SD}=5V$		400	800	μA
I_{LK}	Offset Supply Leakage Current	$V_B=V_S=600V$			10	μA
BOOTSTRAPPED SUPPLY SECTION						
V_{DDUV+} V_{BSUV+}	V_{DD} and V_{BS} Supply Under-Voltage Positive Going Threshold Voltage	$V_{DD}=V_{BS}=\text{Sweep}$	8	9	10	V
V_{DDUV-} V_{BSUV-}	V_{DD} and V_{BS} Supply Under-Voltage Negative Going Threshold Voltage	$V_{DD}=V_{BS}=\text{Sweep}$	7.4	8.4	9.4	V
V_{DDUVH-} V_{BSUVH}	V_{DD} and V_{BS} Supply Under-Voltage Lockout Hysteresis Voltage	$V_{DD}=V_{BS}=\text{Sweep}$		0.6		V
INPUT LOGIC SECTION						
V_{IH}	Logic "1" Input Voltage for HO & Logic "0" for LO		2.5			V
V_{IL}	Logic "0" Input Voltage for HO & Logic "1" for LO				0.8	V
I_{IN+}	Logic Input High Bias Current	$V_{IN}=5V, \overline{SD}=0V$		25	60	μA
I_{IN-}	Logic Input Low Bias Current	$V_{IN}=0V, \overline{SD}=5V$			3	μA
R_{IN}	Logic Input Pull-Down Resistance			200		$K\Omega$
$V_{SDCLAMP}$	Shutdown (\overline{SD}) Input Clamping Voltage			5.0	5.5	V
$\overline{SD+}$	Shutdown (\overline{SD}) input Positive-Going Threshold		2.5			V
$\overline{SD-}$	Shutdown (\overline{SD}) input Negative-Going Threshold				0.8	V
R_{PSD}	Shutdown (\overline{SD}) Input Pull-Up Resistance			200		$K\Omega$
GATE DRIVER OUTPUT SECTION						
V_{OH}	High-level Output Voltage ($V_{BIAS} - V_O$)	No Load			1.5	V
V_{OL}	Low-level Output Voltage	No Load			100	mV
I_{O+}	Output High, Short-Circuit Pulsed Current ⁽⁵⁾	$V_{HO}=0V, V_{IN}=5V, PW \leq 10\mu s$	2.0	2.5		A
I_{O-}	Output Low, Short-Circuit Pulsed Current ⁽⁵⁾	$V_{HO}=15V, V_{IN}=0V, PW \leq 10\mu s$	2.0	2.5		A
V_S	Allowable Negative V_S Pin Voltage for IN Signal Propagation to HO			-9.8	-7.0	V

Note:

- 5 These parameters guaranteed by design.

Dynamic Electrical Characteristics

$V_{BIAS}(V_{DD}, V_{BS})=15.0V$, $COM=0V$, $C_L=1000pF$, and $T_A=25^\circ C$, unless otherwise specified.

Symbol	Parameter	Conditions	Min.	Typ.	Max.	Unit
t_{ON}	Turn-On Propagation Delay Time ⁽⁶⁾	$V_S=0V$		600	850	ns
t_{OFF}	Turn-Off Propagation Delay Time	$V_S=0V$		200	350	ns
t_{SD}	Shutdown Propagation Delay Time			140	220	ns
Mt_{ON}	Delay Matching, HO and LO Turn-On			0	50	ns
Mt_{OFF}	Delay Matching, HO and LO Turn-Off			0	50	ns
t_R	Turn-On Rise Time	$V_S=0V$		25	50	ns
t_F	Turn-Off Fall Time	$V_S=0V$		20	35	ns
DT	Dead-Time: LO Turn-Off to HO Turn-On and HO Turn-Off to LO Turn-On		300	400	500	ns
MDT	Dead-time matching= $ DT_{LO-HO} - DT_{HO-LO} $			0	50	ns

Note:

- The turn-on propagation delay time included dead-time.

Typical Characteristics

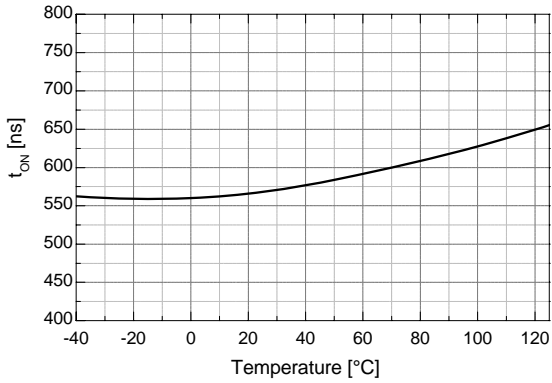


Figure 4. Turn-On Propagation Delay vs. Temperature

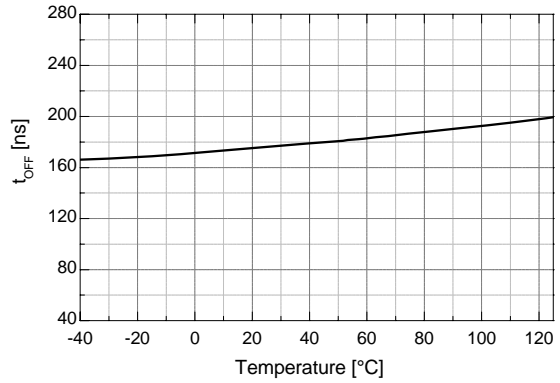


Figure 5. Turn-Off Propagation Delay vs. Temperature

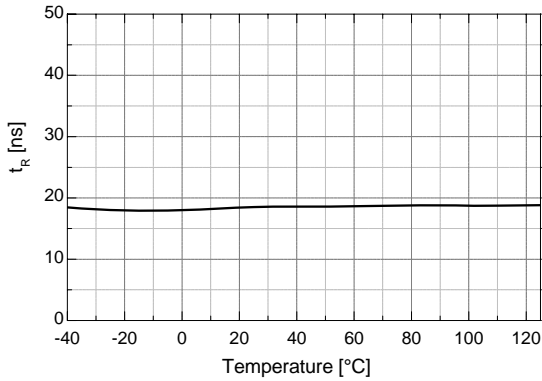


Figure 6. Turn-On Rise Time vs. Temperature

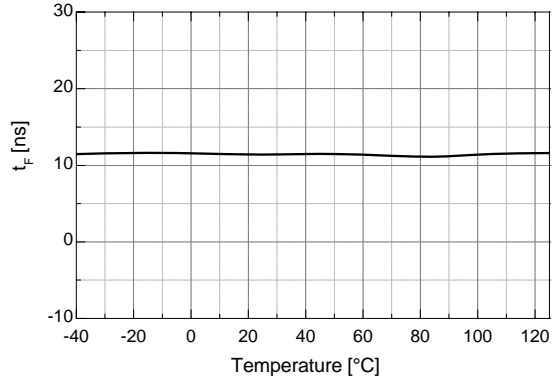


Figure 7. Turn-Off Fall Time vs. Temperature

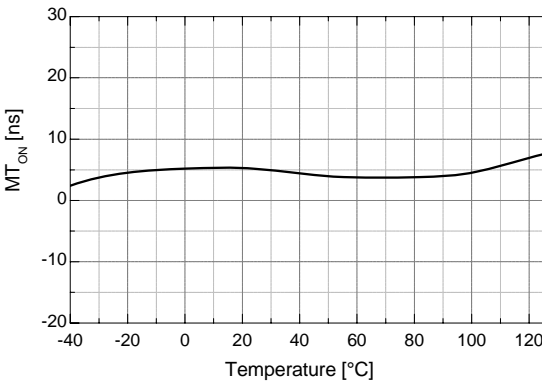


Figure 8. Turn-On Delay Matching vs. Temperature

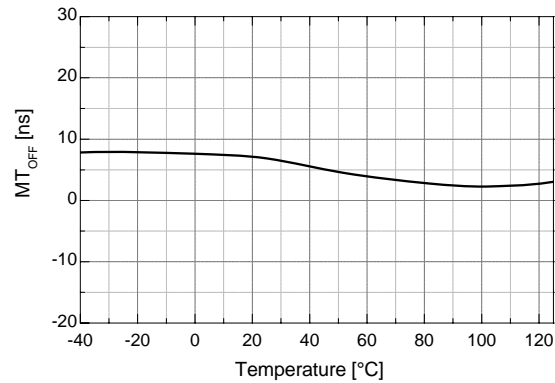


Figure 9. Turn-Off Delay Matching vs. Temperature

Typical Characteristics (Continued)

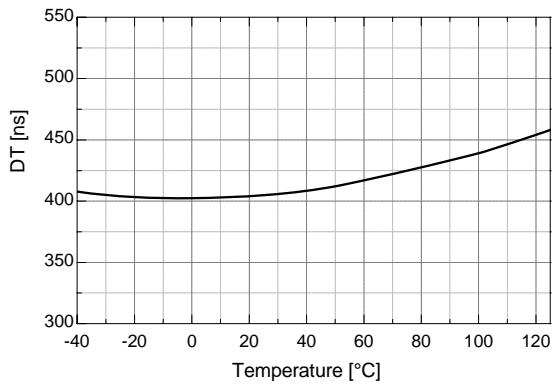


Figure 10. Dead-Time vs. Temperature

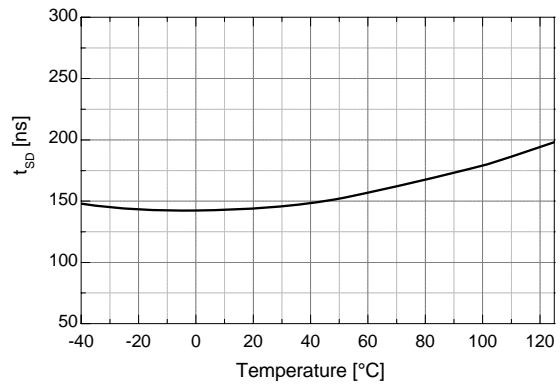


Figure 11. Shutdown Propagation Delay vs. Temperature

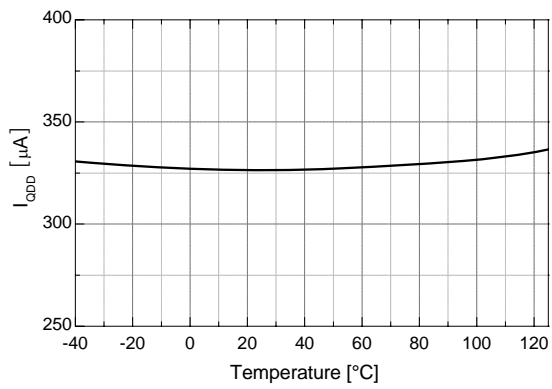


Figure 12. Quiescent V_{DD} Supply Current vs. Temperature

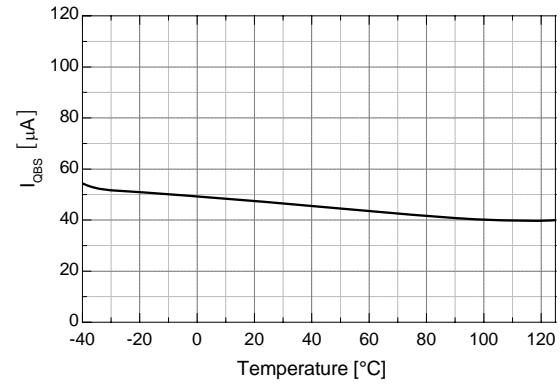


Figure 13. Quiescent V_{BS} Supply Current vs. Temperature

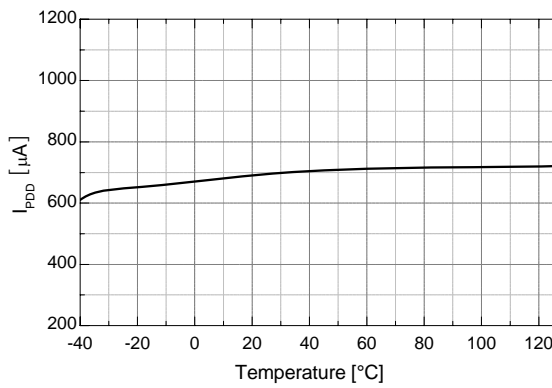


Figure 14. Operating V_{DD} Supply Current vs. Temperature

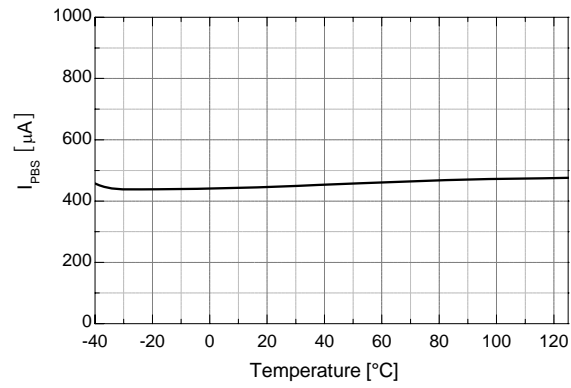


Figure 15. Operating V_{BS} Supply Current vs. Temperature

Typical Characteristics (Continued)

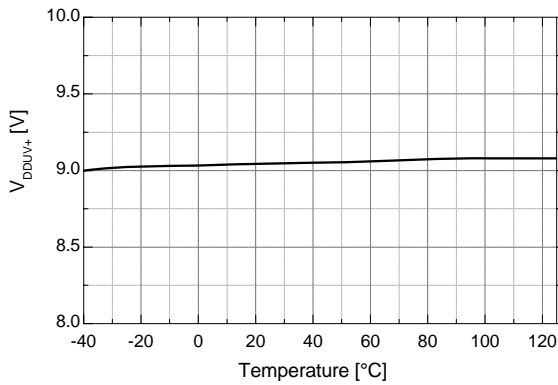


Figure 16. V_{DD} UVLO+ vs. Temperature

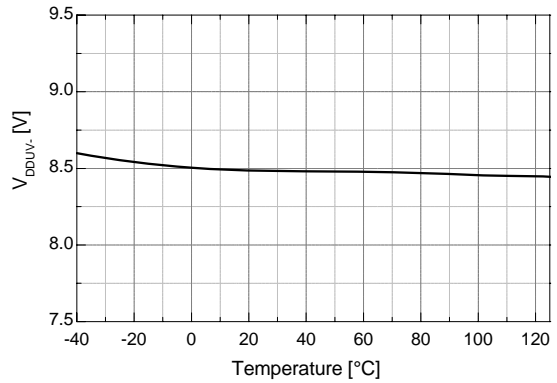


Figure 17. V_{DD} UVLO- vs. Temperature

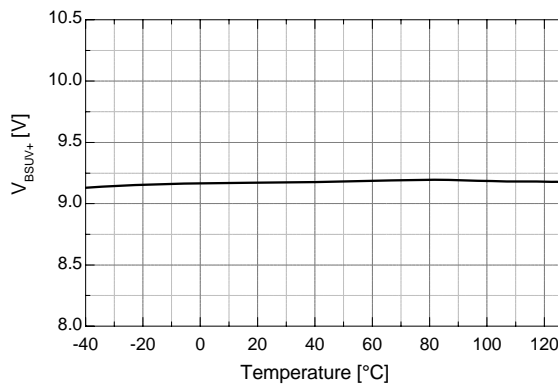


Figure 18. V_{BS} UVLO+ vs. Temperature

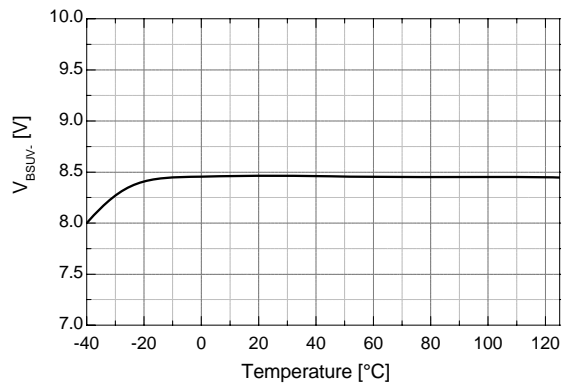


Figure 19. V_{BS} UVLO- vs. Temperature

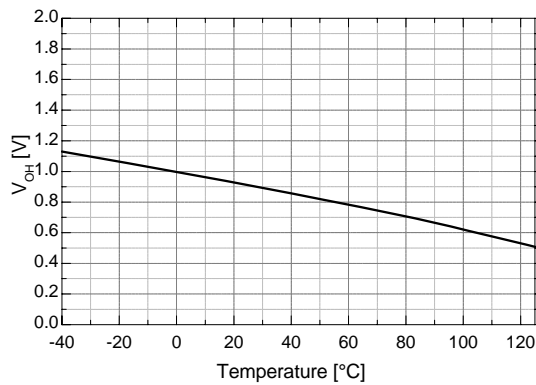


Figure 20. High-Level Output Voltage vs. Temperature

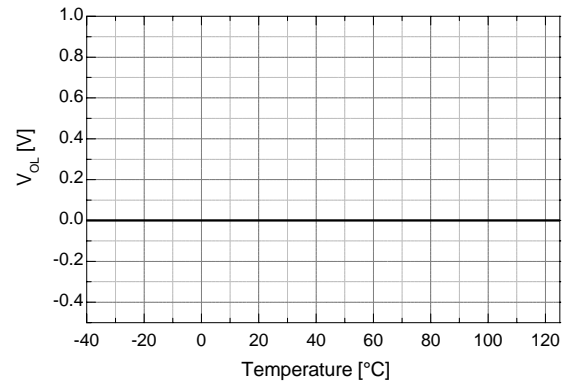


Figure 21. Low-Level Output Voltage vs. Temperature

Typical Characteristics (Continued)

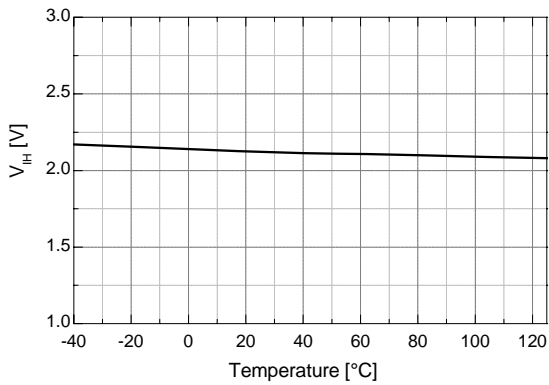


Figure 22. Logic High Input Voltage vs. Temperature

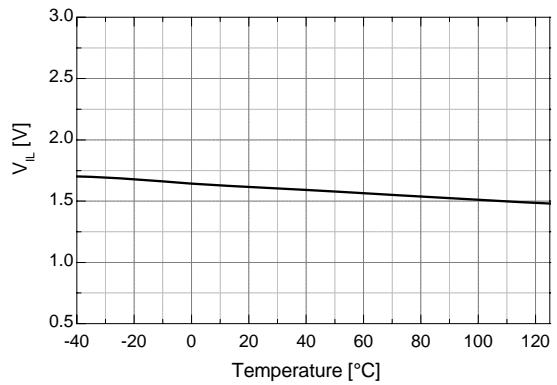


Figure 23. Logic Low Input Voltage vs. Temperature

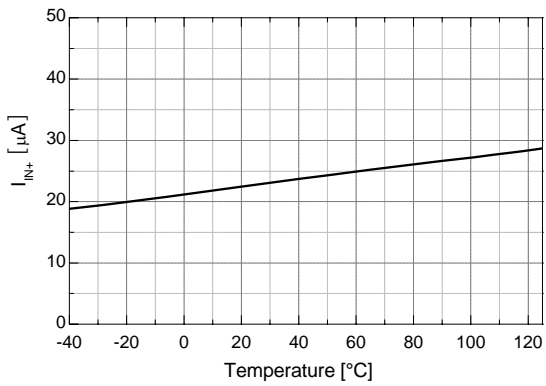


Figure 24. Logic Input High Bias Current vs. Temperature

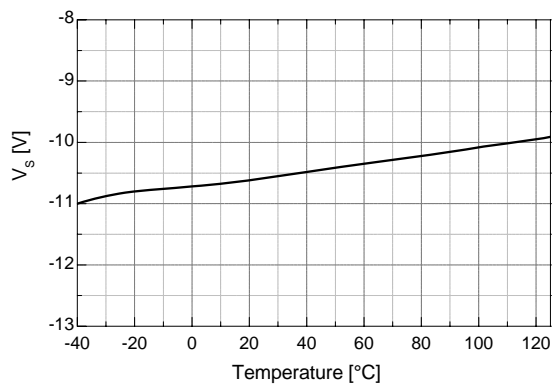


Figure 25. Allowable Negative V_S Voltage vs. Temperature

Switching Time Definitions

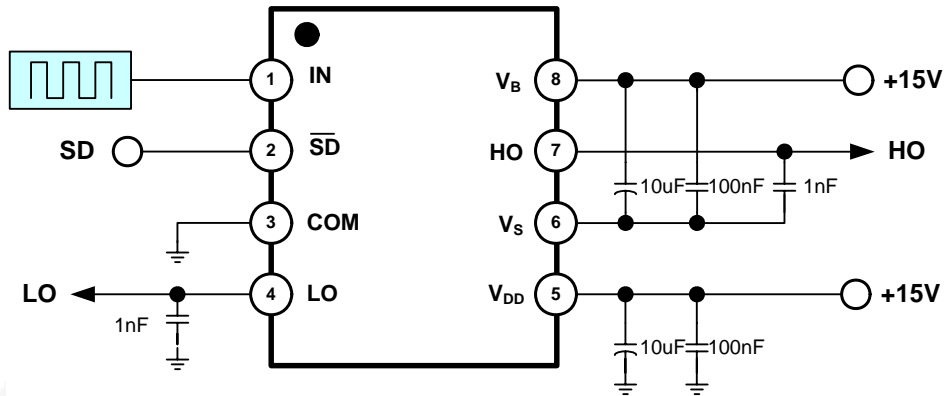


Figure 26. Switching Time Test Circuit

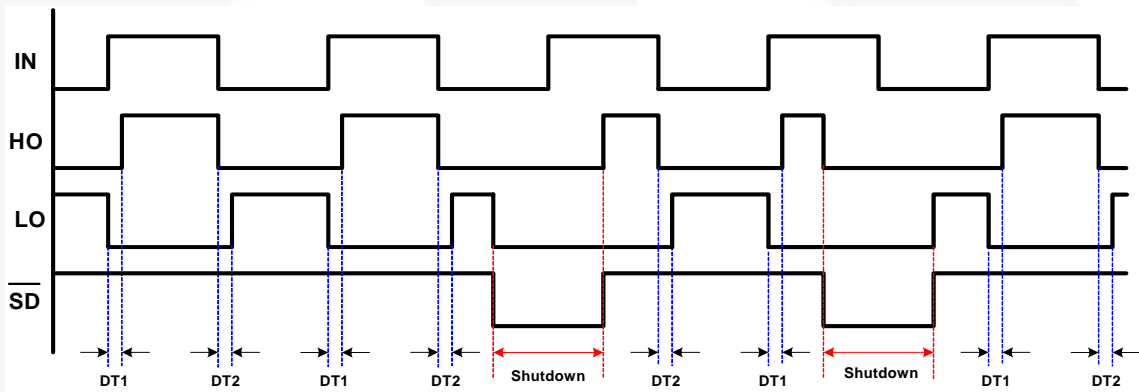


Figure 27. Input/Output Timing Diagram

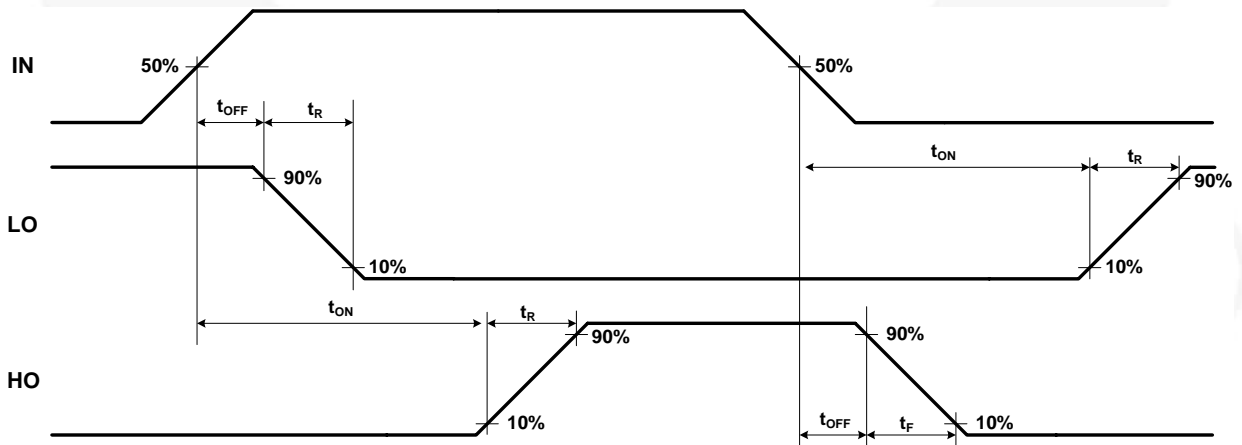


Figure 28. Switching Time Waveform Definition

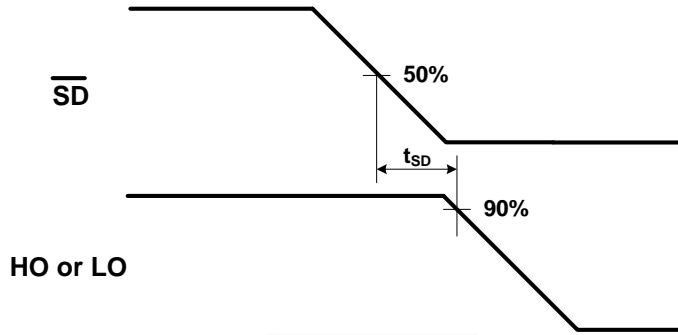


Figure 29. Shutdown Waveform Definition

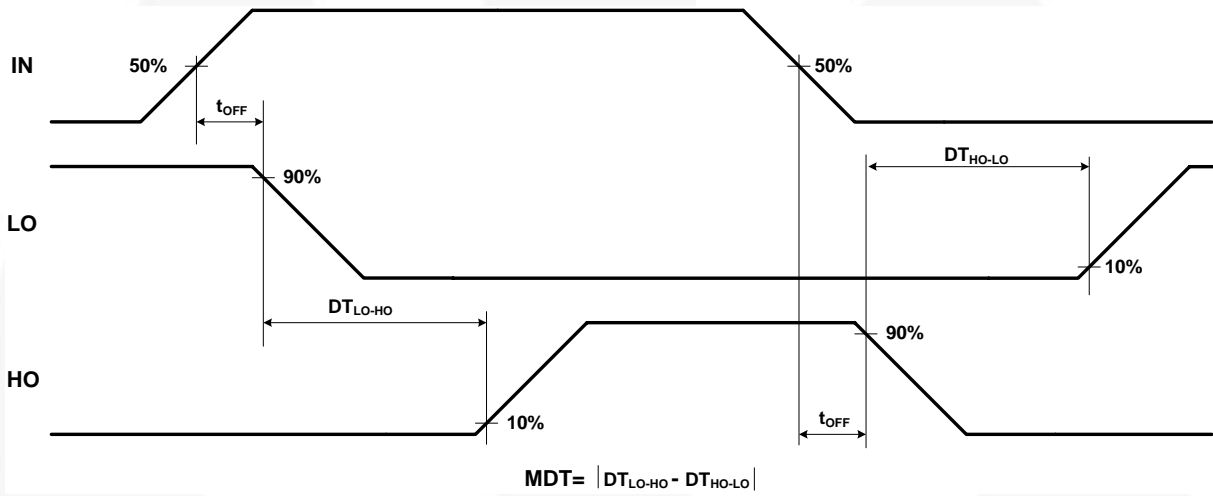


Figure 30. Dead-Time Waveform Definition



Figure 31. Delay Matching Waveform Definition

Mechanical Dimensions

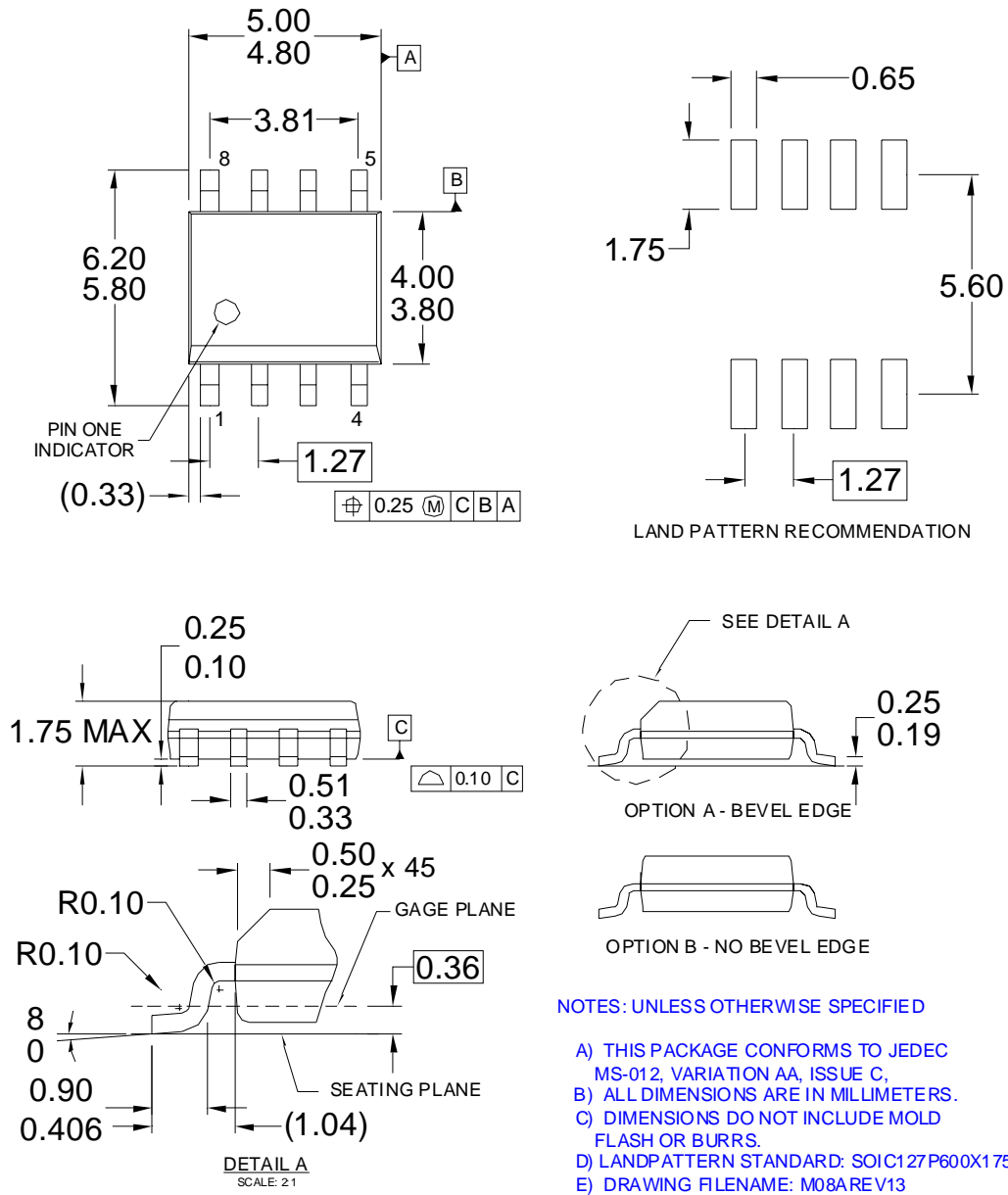


Figure 32. 8-Lead Small Outline Package (SOP)

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Definition of Terms

Datasheet Identification	Product Status	Definition
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Rev. 147

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