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FAN7390

High-Current, High & Low-Side, Gate-Drive IC

Features

- Floating Channels for Bootstrap Operation to +600V
- Typically 4.5A/4.5A Sourcing/Sinking Current Driving Capability
- Common-Mode dv/dt Noise Canceling Circuit
- Built-in Under-Voltage Lockout for Both Channels
- Matched Propagation Delay for Both Channels
- Logic (V_{SS}) and Power (COM) Ground +/- 7V Offset
- 3.3V and 5V Input Logic Compatible
- Output In-phase with Input

Applications

- PDP Sustain Driver
- HID Lamp Ballast
- SMPS
- Motor Driver

Description

The FAN7390 is a monolithic high- and low-side gate-drive IC, 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 make this device suitable for the PDP sustain pulse driver, motor driver, switching power supply, and high-power DC-DC converter applications.

8-SOP



14-SOP



Ordering Information

Part Number	Package	Operating Temperature Range	Packing Method
FAN7390MX	8-SOP	-40°C ~ 125°C	Tape & Reel
FAN7390M1X	14-SOP		Tape & Reel

Typical Application Circuit

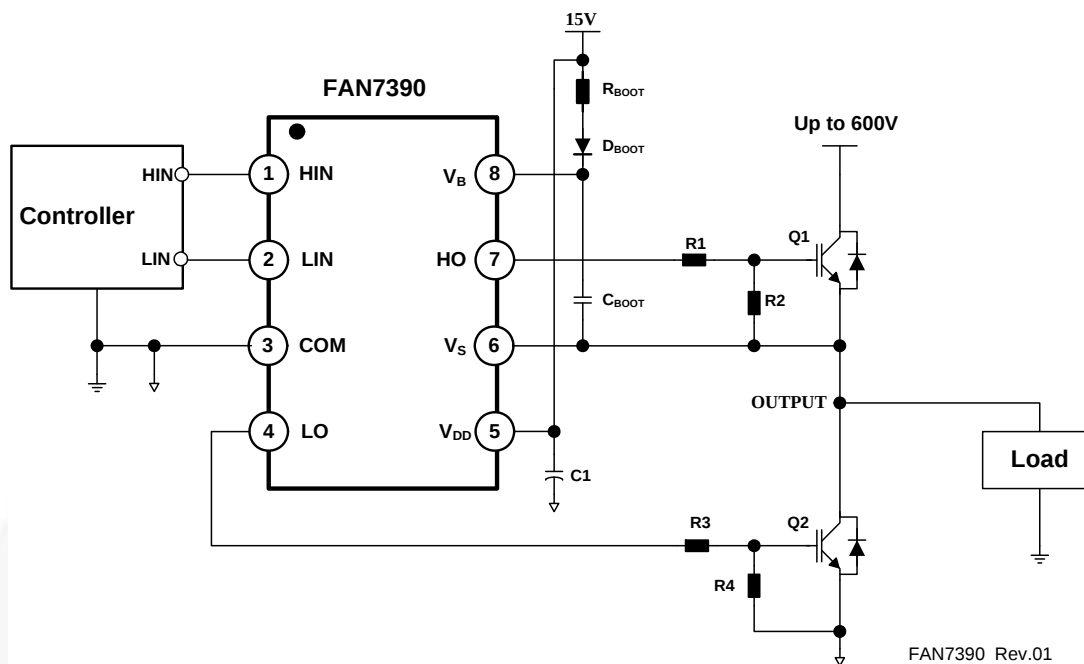


Figure 1. Application Circuit for Half-Bridge (Referenced 8-SOP)

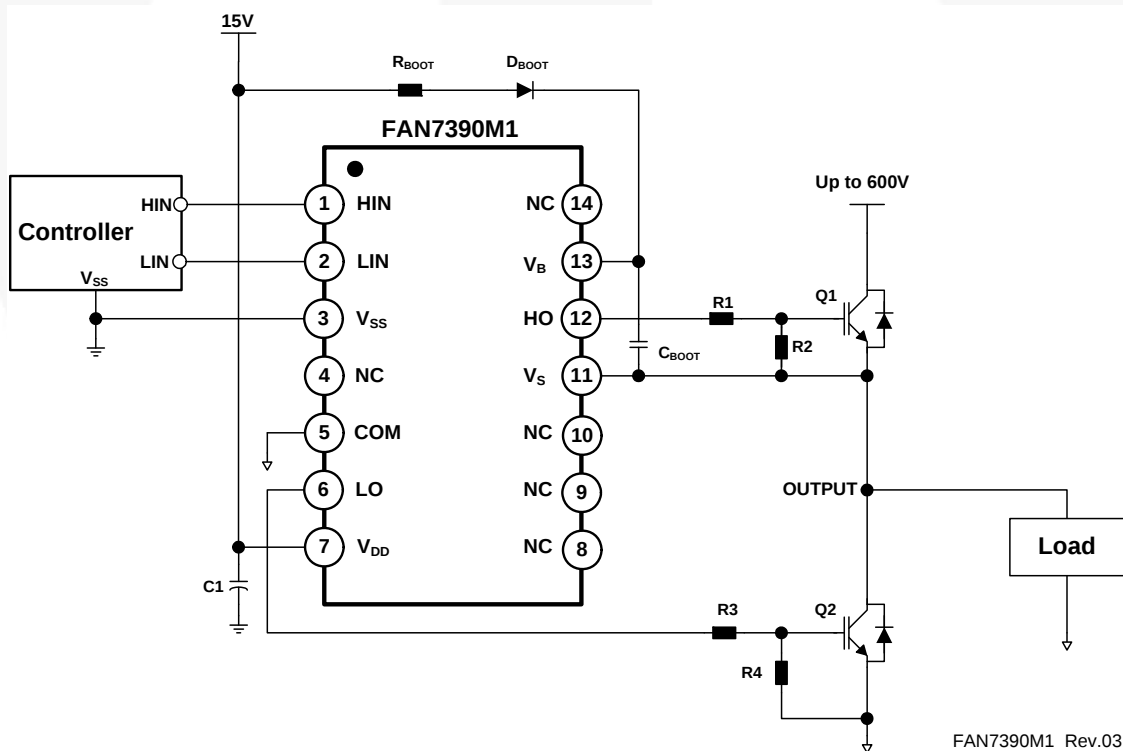


Figure 2. Application Circuit for Half-Bridge (Referenced 14-SOP)

Internal Block Diagram

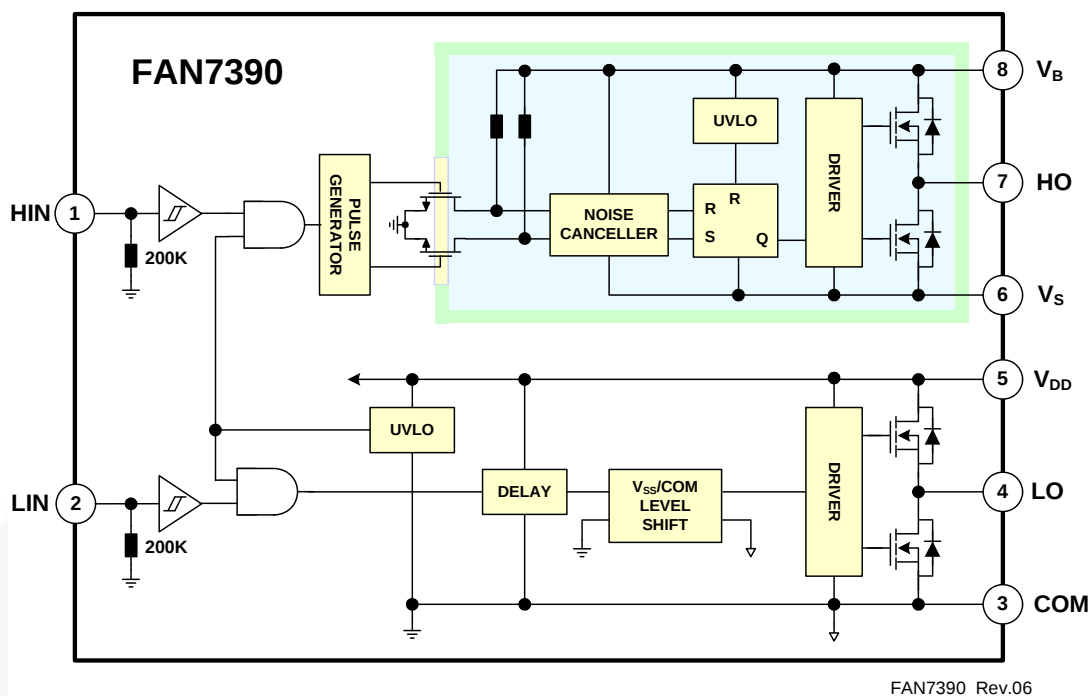


Figure 3. Functional Block Diagram (Referenced 8-SOP)

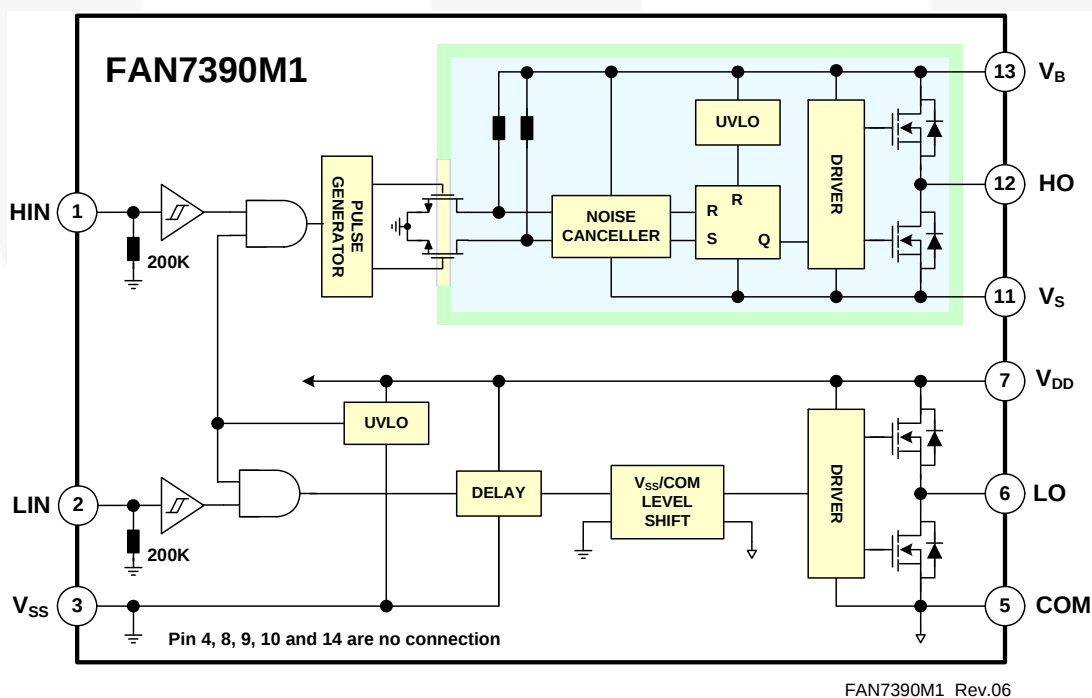


Figure 4. Functional Block Diagram (Referenced 14-SOP)

Pin Configurations

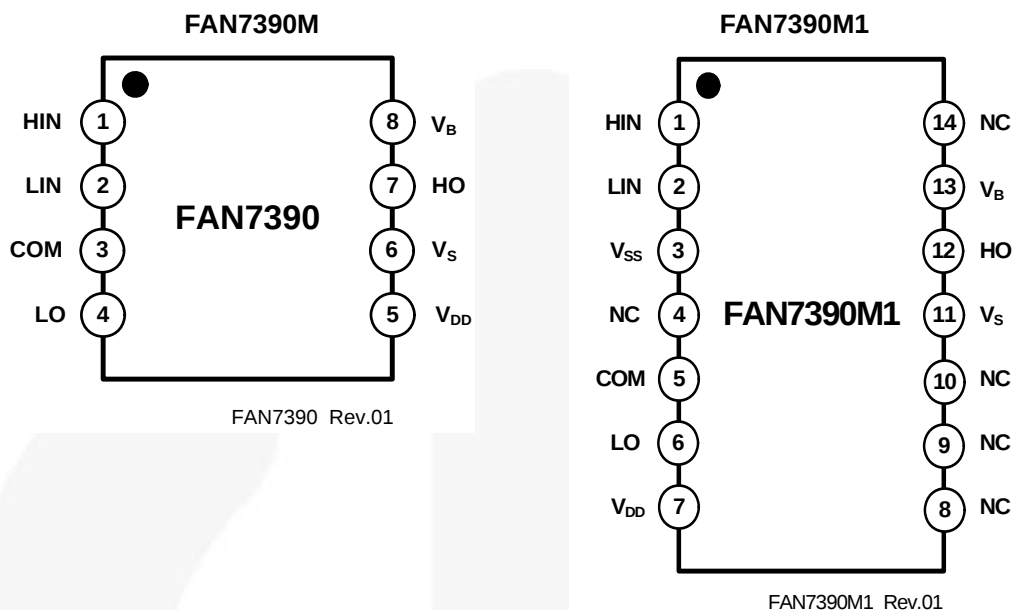


Figure 5. Pin Assignments (Top View)

Pin Definitions

8-Pin	14-Pin	Name	Description
1	1	HIN	Logic Input for High-Side Gate Driver Output
2	2	LIN	Logic Input for Low-Side Gate Driver Output
	3	V_{SS}	Logic Ground (FAN7390M1 only)
3	5	COM	Low-Side Driver Return
4	6	LO	Low-Side Driver Output
5	7	V_{DD}	Low-Side and Logic Part Supply Voltage
6	11	V_S	High-Voltage Floating Supply Return
7	12	HO	High-Side Driver Output
8	13	V_B	High-Side Floating Supply
	4, 8, 9, 10, 14	NC	No Connect

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	Characteristics	Min.	Max.	Unit
V_S	High-Side Floating Supply Offset Voltage	V_B-25	$V_B+0.3$	V
V_B	High-Side Floating Supply Voltage	-0.3	625.0	V
V_{HO}	High-Side Floating Output Voltage HO	$V_S-0.3$	$V_B+0.3$	V
V_{DD}	Low-Side and Logic Fixed Supply Voltage	-0.3	25.0	V
V_{LO}	Low-Side Output Voltage LO	-0.3	$V_{DD}+0.3$	V
V_{IN}	Logic Input Voltage (HIN and LIN)	$V_{SS}-0.3$	$V_{DD}+0.3$	V
V_{SS}	Logic Ground (FAN7390M1 only)	$V_{DD}-25$	$V_{DD}+0.3$	V
dV_S/dt	Allowable Offset Voltage Slew Rate		50	V/ns
$P_D^{(1)(2)(3)}$	Power Dissipation	8-SOP	0.625	W
		14-SOP	1.000	
θ_{JA}	Thermal Resistance, Junction-to-Ambient	8-SOP	200	$^{\circ}\text{C/W}$
		14-SOP	110	
T_J	Junction Temperature		+150	$^{\circ}\text{C}$
T_{STG}	Storage Temperature		+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+22	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 Supply Voltage	10	22	V
V_{LO}	Low-Side Output Voltage	COM	V_{DD}	V
V_{IN}	Logic Input Voltage (HIN and LIN)	V_{SS}	V_{DD}	V
T_A	Operating Ambient Temperature	-40	+125	$^{\circ}\text{C}$

Electrical Characteristics

V_{BIAS} (V_{DD} , V_{BS})=15.0V, $V_S=V_{SS}=COM$, $T_A=25^\circ C$, unless otherwise specified. The V_{IL} , V_{IH} , and I_{IN} parameters are referenced to V_{SS}/COM and are applicable to the respective input signals HIN and LIN. The V_O and I_O parameters are referenced to COM and V_S is applicable to the respective output signals HO and LO.

Symbol	Characteristics	Test Condition	Min.	Typ.	Max.	Unit
POWER SUPPLY SECTION (V _{DD} AND V _{BS})						
V _{DDUV+} V _{BSUV+}	V _{DD} and V _{BS} Supply Under-Voltage Positive-going Threshold		8.0	8.8	9.8	V
V _{DDUV-} V _{BSUV-}	V _{DD} and V _{BS} Supply Under-Voltage Negative-going Threshold		7.4	8.3	9.0	
V _{DDUVH} V _{BSUVH}	V _{DD} and V _{BS} Supply Under-Voltage Lockout Hysteresis Voltage			0.5		
I _{LK}	Offset Supply Leakage Current	V _B =V _S =600V			50	μA
I _{QBS}	Quiescent V _{BS} Supply Current	V _{IN} =0V or 5V		45	80	
I _{QDD}	Quiescent V _{DD} Supply Current	V _{IN} =0V or 5V		75	110	
I _{PBS}	Operating V _{BS} Supply Current	f _{IN} =20kHz, rms value		530	640	μA
I _{PDD}	Operating V _{DD} Supply Current	f _{IN} =20kHz, rms value		530	640	
LOGIC INPUT SECTION (H _{IN} , L _{IN})						
V _{IH}	Logic "1" Input Voltage		2.5			V
V _{IL}	Logic "0" Input Voltage				1.2	
I _{IN+}	Logic "1" Input Bias Current	V _{IN} =5V		25	50	μA
I _{IN-}	Logic "0" Input Bias Current	V _{IN} =0V		1.0	2.0	
R _{IN}	Input Pull-down Resistance		100	200		KΩ
GATE DRIVER OUTPUT SECTION (H _O , L _O)						
V _{OH}	High-level Output Voltage, V _{BIAS} -V _O	No Load			1.0	V
V _{OL}	Low-level Output Voltage, V _O	No Load			35	mV
I _{O+}	Output High, Short-circuit Pulsed Current ⁽⁴⁾	V _O =0V, V _{IN} =5V with PW<10μs	3.5	4.5		A
I _{O-}	Output Low, Short-circuit Pulsed Current ⁽⁴⁾	V _O =15V, V _{IN} =0V with PW<10μs	3.5	4.5		
V _S	Allowable Negative V _S Pin Voltage for H _{IN} Signal Propagation to H _O			-9.8	-7.0	V
V _{SS-COM}	V _{SS} -COM/COM-V _{SS} Voltage Endurability		-7.0		7.0	V

Note:

4. This parameter guaranteed by design.

Dynamic Electrical Characteristics

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

Symbol	Characteristics	Test Condition	Min.	Typ.	Max.	Unit
t_{on}	Turn-on Propagation Delay	$V_S=0V$		140	200	ns
t_{off}	Turn-off Propagation Delay	$V_S=0V$		140	200	
MT	Delay Matching, HS & LS Turn-on/off			0	50	
t_r	Turn-on Rise Time			25	50	
t_f	Turn-off Fall Time			20	45	

Typical Characteristics

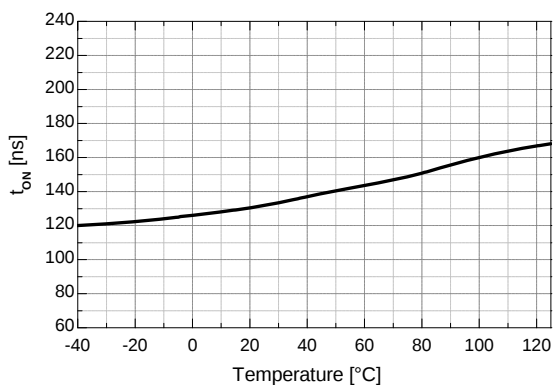


Figure 6. Turn-on Propagation Delay vs. Temperature

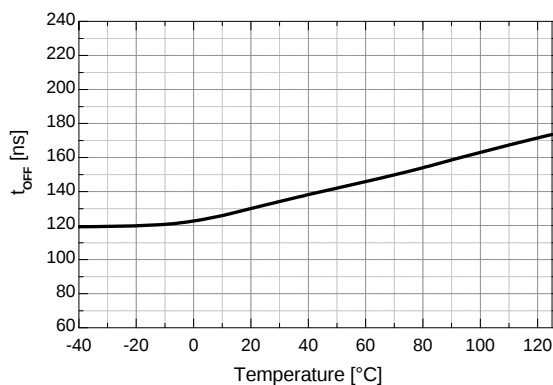


Figure 7. Turn-off Propagation Delay vs. Temperature

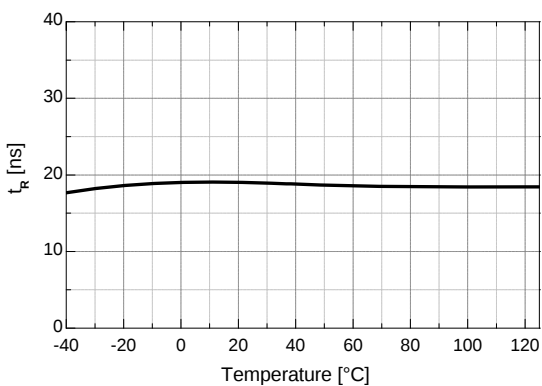


Figure 8. Turn-on Rise Time vs. Temperature

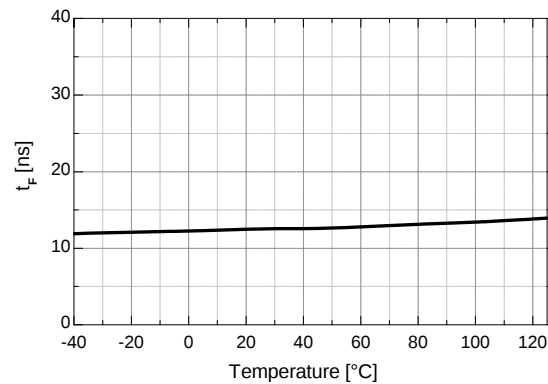


Figure 9. Turn-off Fall Time vs. Temperature

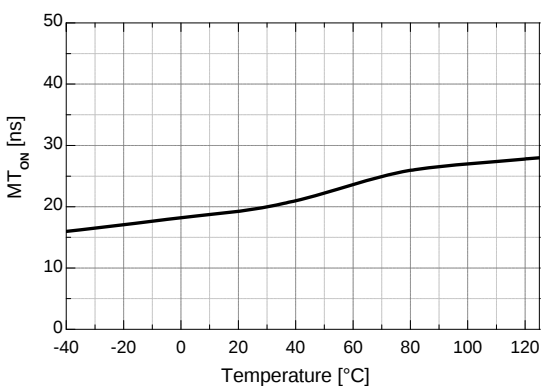


Figure 10. Turn-on Delay Matching vs. Temperature

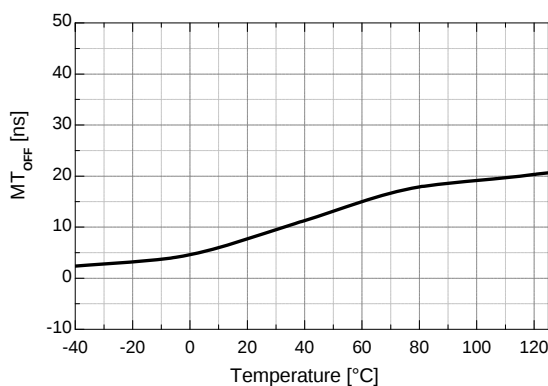
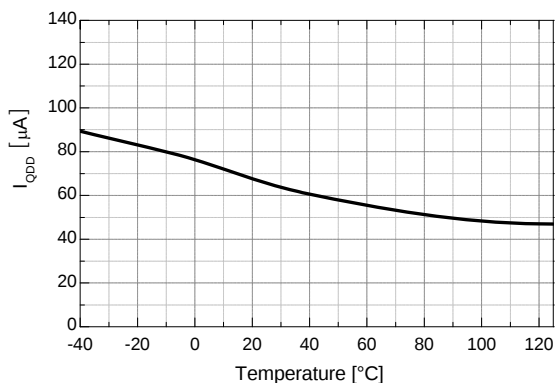
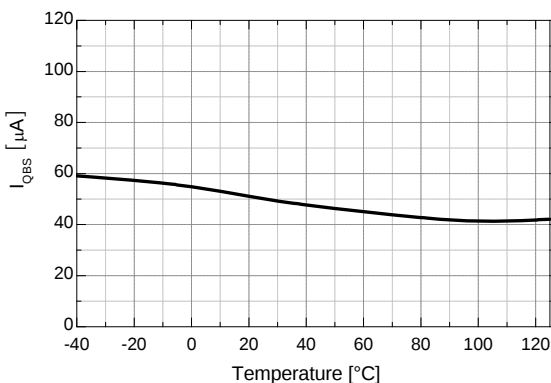
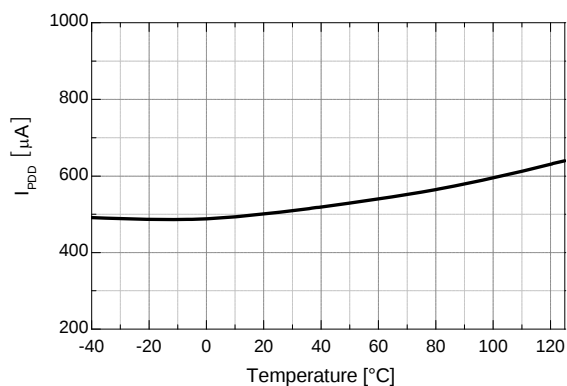
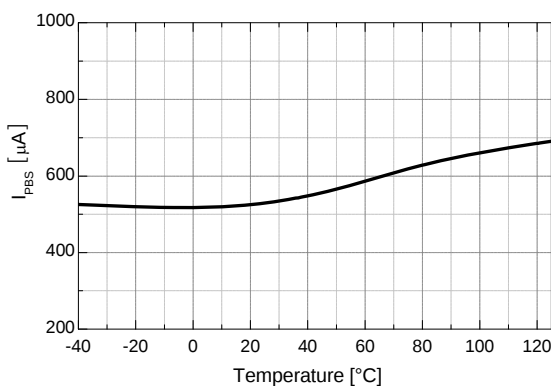
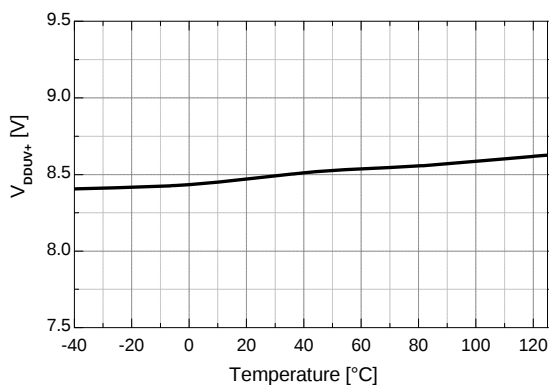
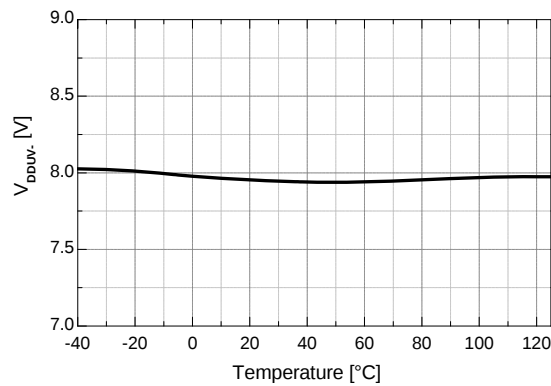


Figure 11. Turn-off Delay Matching vs. Temperature

Typical Characteristics (Continued)

Figure 12. Quiescent V_{DD} Supply Current vs. TemperatureFigure 13. Quiescent V_{BS} Supply Current vs. TemperatureFigure 14. Operating V_{DD} Supply Current vs. TemperatureFigure 15. Operating V_{BS} Supply Current vs. Temperature.Figure 16. V_{DD} UVLO+ vs. TemperatureFigure 17. V_{DD} UVLO- vs. Temperature

Typical Characteristics (Continued)

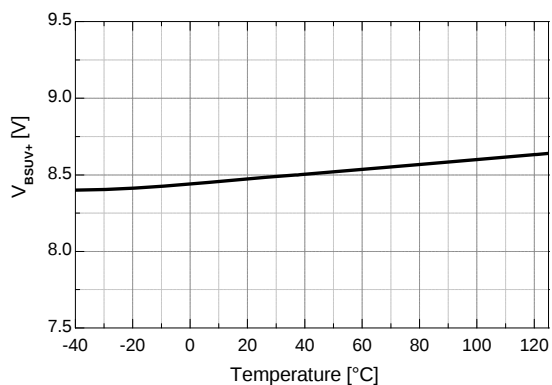


Figure 18. V_{BS} UVLO+ vs. Temperature

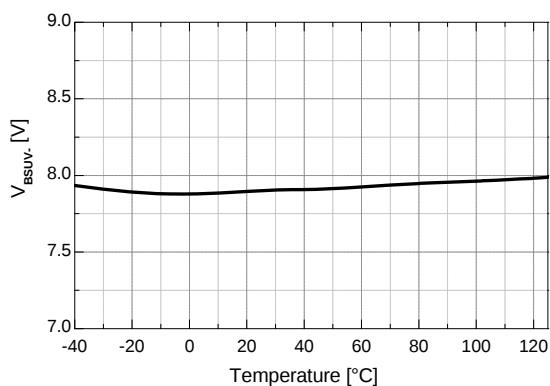


Figure 19. V_{BS} UVLO- vs. Temperature

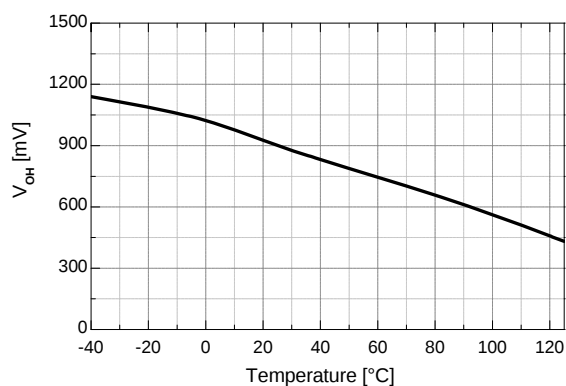


Figure 20. High-Level Output Voltage vs. Temperature

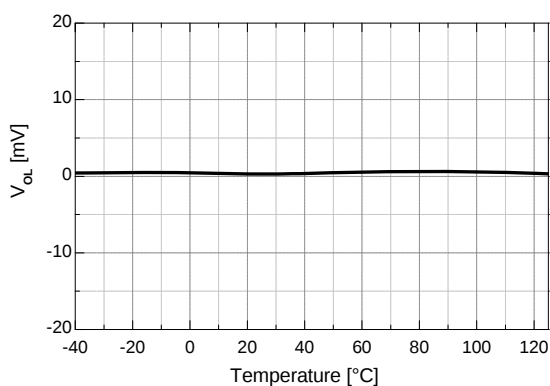


Figure 21. Low-Level Output Voltage vs. Temperature

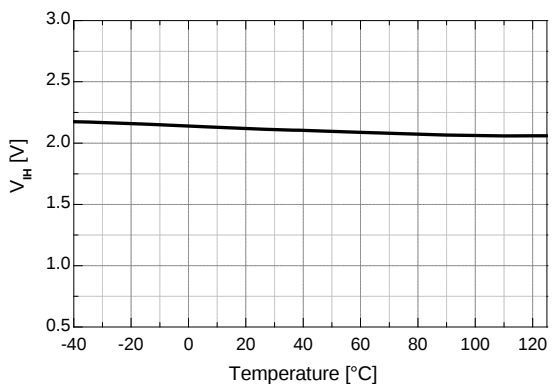


Figure 22. Logic High Input Voltage vs. Temperature

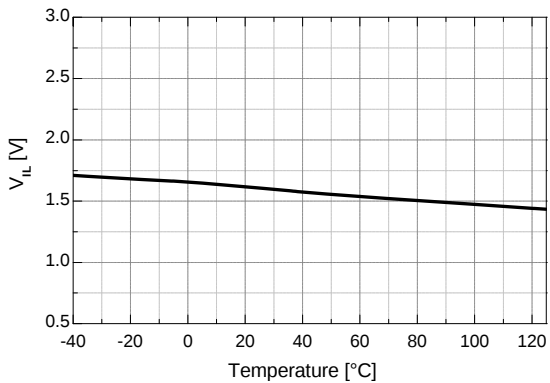


Figure 23. Low Input Voltage vs. Temperature

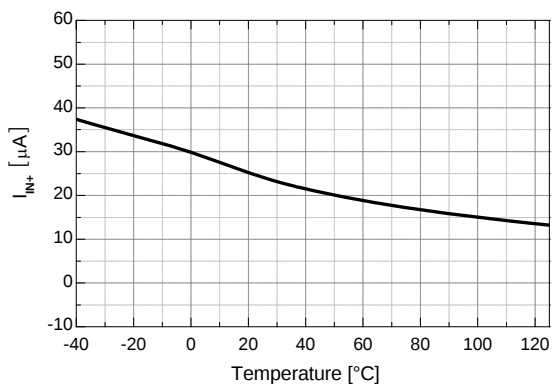
Typical Characteristics (Continued)

Figure 24. Logic Input High Bias Current vs. Temperature

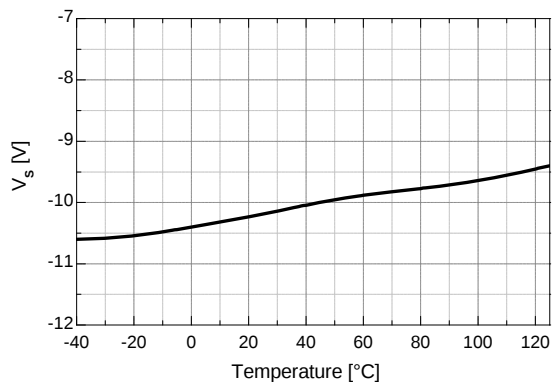


Figure 25. Allowable Negative V_S Voltage vs. Temperature

Switching Time Definitions

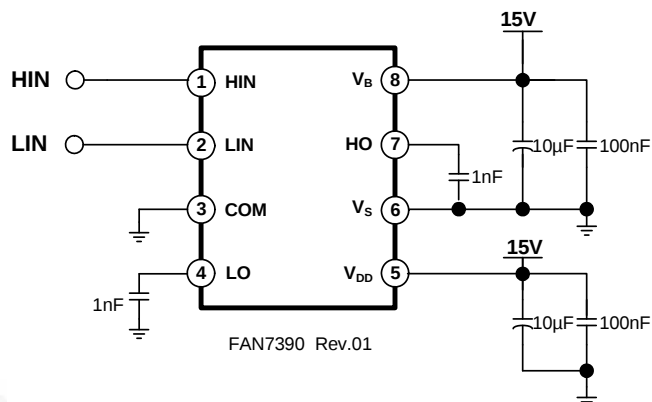


Figure 26. Switching Time Test Circuit (Referenced 8-SOP)

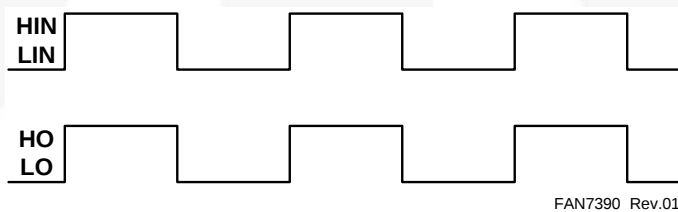


Figure 27. Input/Output Timing Diagram

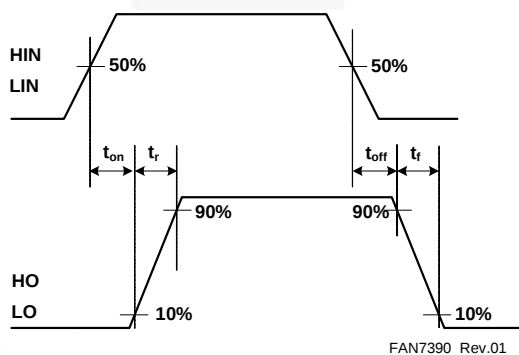


Figure 28. Switching Time Waveform Definitions

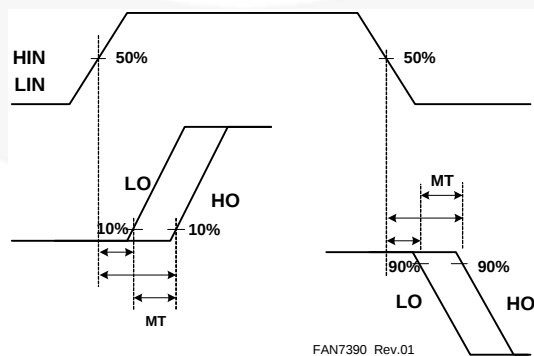


Figure 29. Delay Matching Waveform Definitions

Physical Dimensions

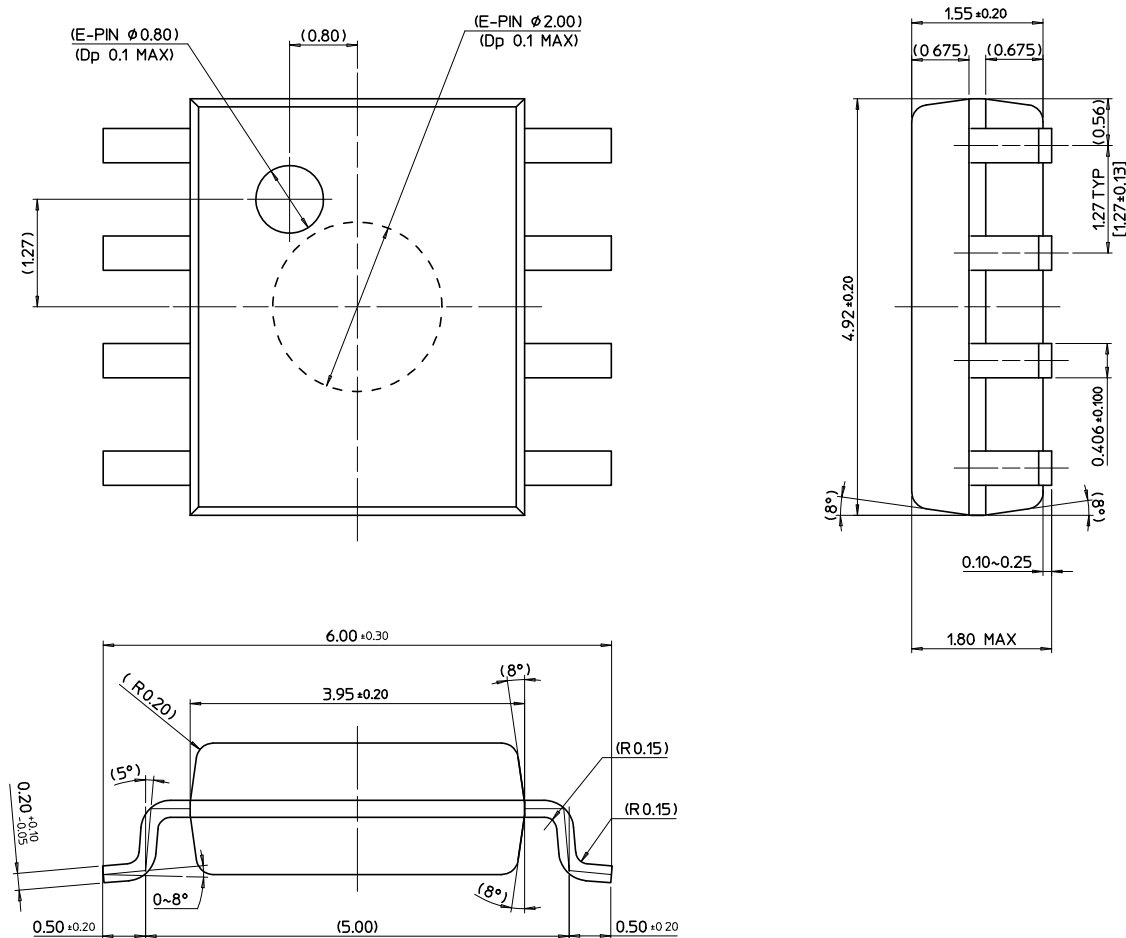


Figure 30. 8-Lead Small Outline Package (SOP)

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Physical Dimensions (Continued)

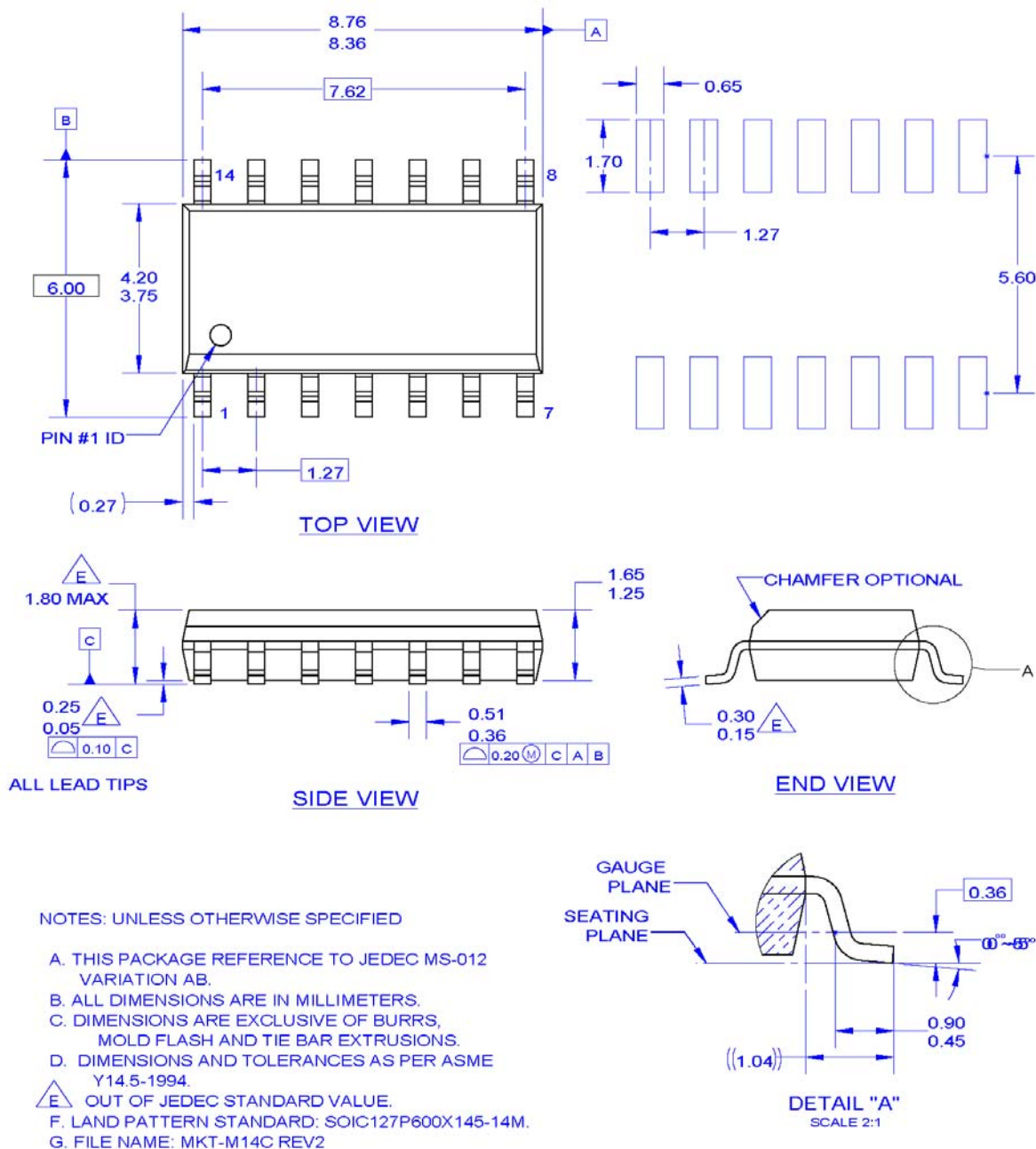


Figure 31. 14-Lead Small Outline Package (SOP)

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