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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 $V_{BS} = 15V$.

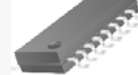
The UVLO circuit prevents malfunction when V_{DD} and V_{BS} are lower than the specified threshold voltage.

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



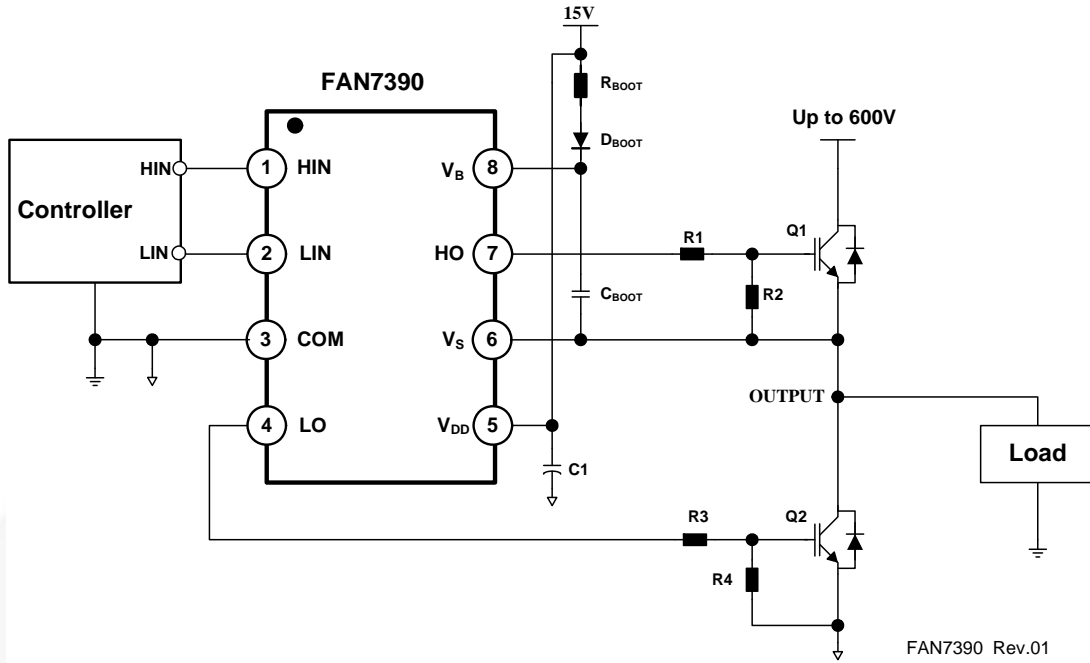
14-SOP



Ordering Information

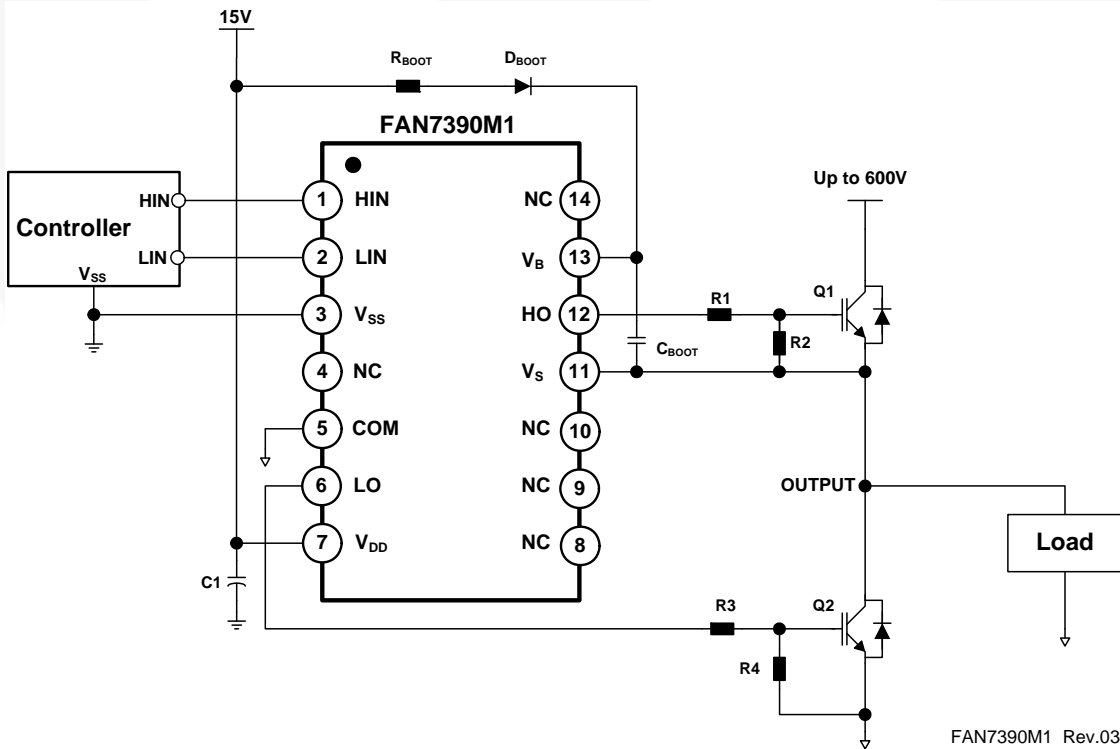
| Part Number | Package | Operating Temperature Range | Packing Method |
|-------------|---------|-----------------------------|----------------|
| FAN7390MX | 8-SOP | -40°C ~ 125°C | Tape & Reel |
| FAN7390M1X | 14-SOP | | Tape & Reel |

Typical Application Circuit



FAN7390 Rev.01

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



FAN7390M1 Rev.03

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

Internal Block Diagram

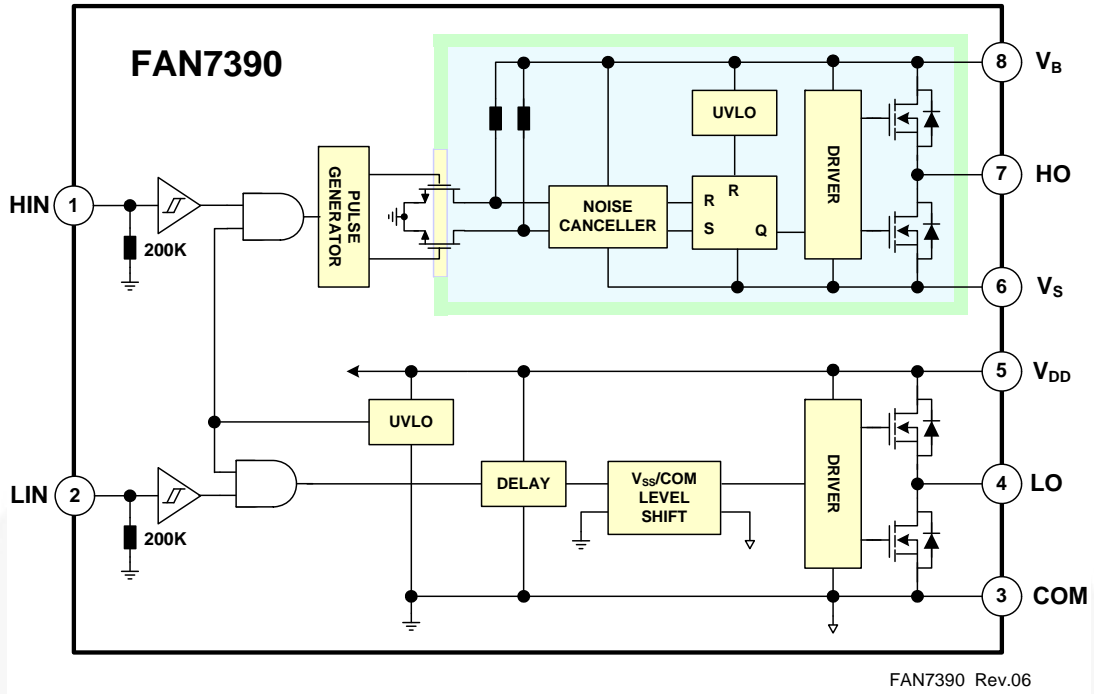


Figure 3. Functional Block Diagram (Referenced 8-SOP)

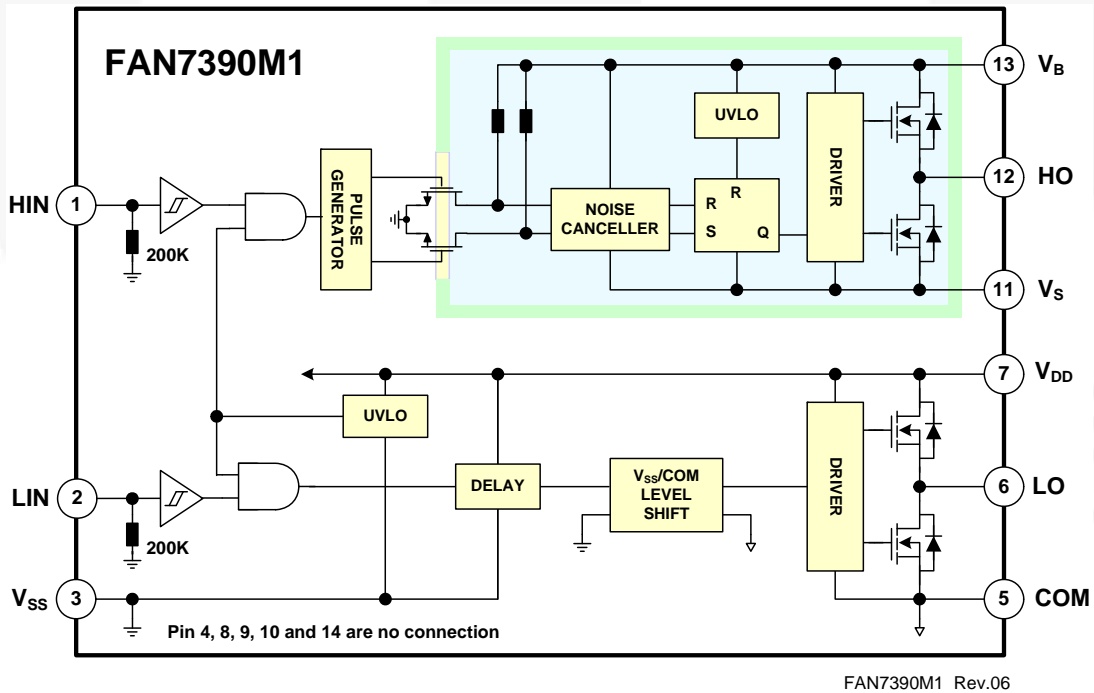


Figure 4. Functional Block Diagram (Referenced 14-SOP)

Pin Configurations

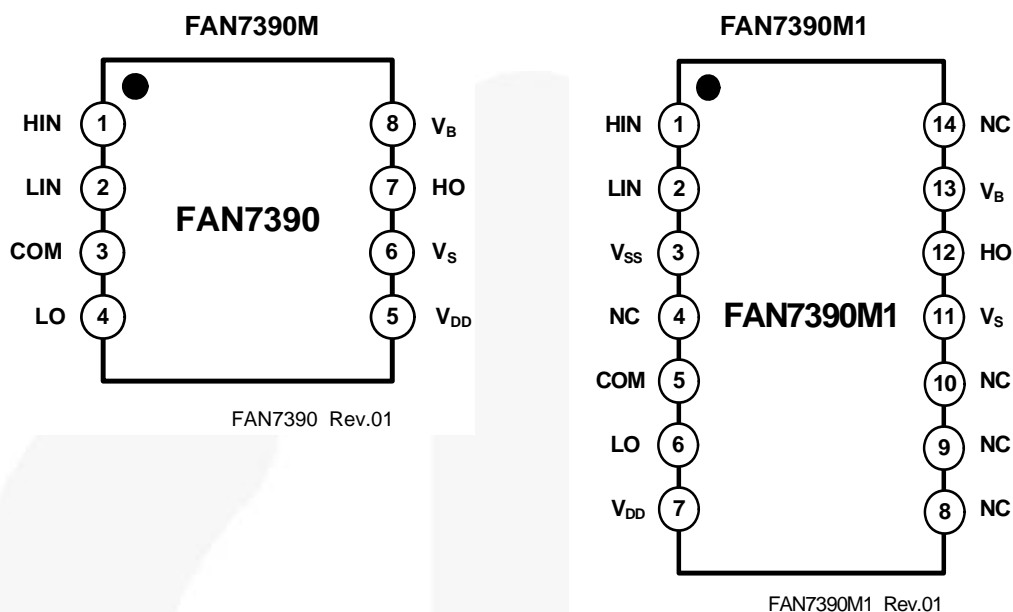


Figure 5. Pin Assignments (Top View)

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 (HIN, LIN) | | | | | | |
| 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 | | $K\Omega$ |
| GATE DRIVER OUTPUT SECTION (HO, LO) | | | | | | |
| 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 $PW<10\mu s$ | 3.5 | 4.5 | | A |
| I_{O-} | Output Low, Short-circuit Pulsed Current ⁽⁴⁾ | $V_O=15V$, $V_{IN}=0V$ with $PW<10\mu s$ | 3.5 | 4.5 | | |
| V_S | Allowable Negative V_S Pin Voltage for HIN Signal Propagation to HO | | | -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

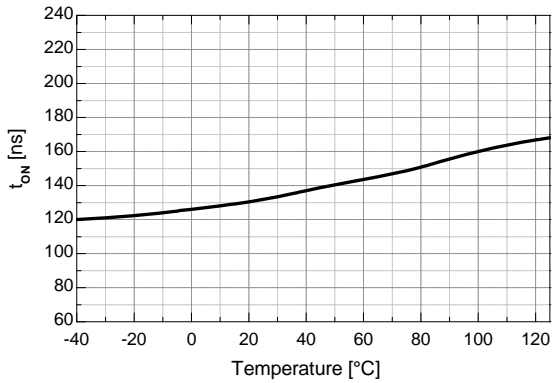


Figure 6. Turn-on Propagation Delay vs. Temperature

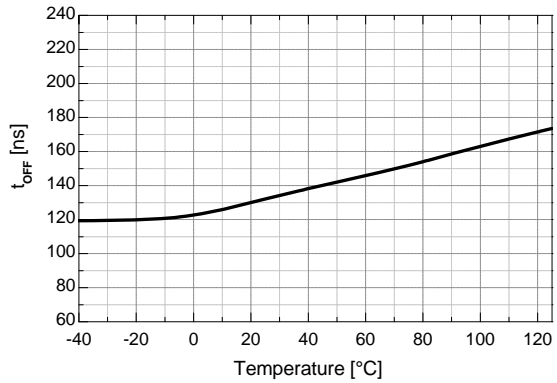


Figure 7. Turn-off Propagation Delay vs. Temperature

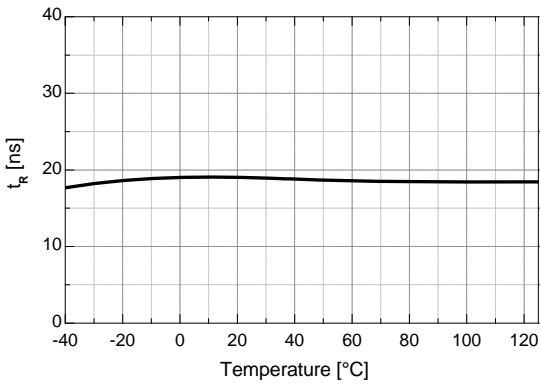


Figure 8. Turn-on Rise Time vs. Temperature

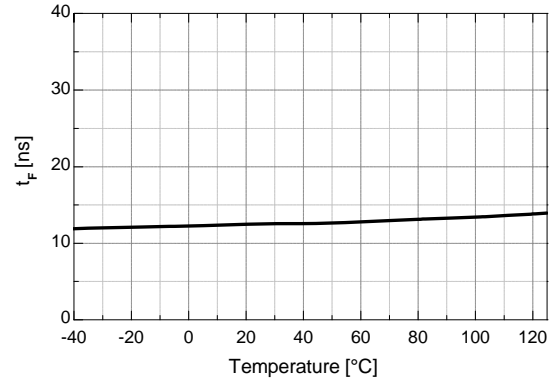


Figure 9. Turn-off Fall Time vs. Temperature

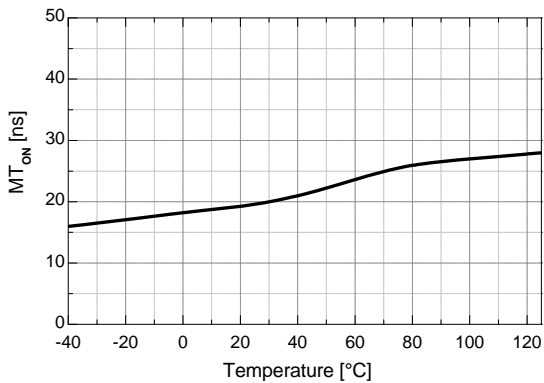


Figure 10. Turn-on Delay Matching vs. Temperature

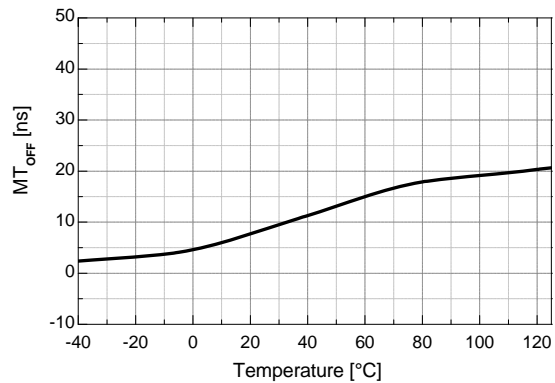


Figure 11. Turn-off Delay Matching vs. Temperature

Typical Characteristics (Continued)

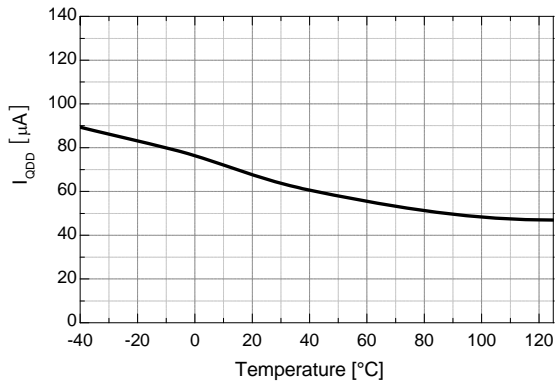


Figure 12. Quiescent V_{DD} Supply Current vs. Temperature

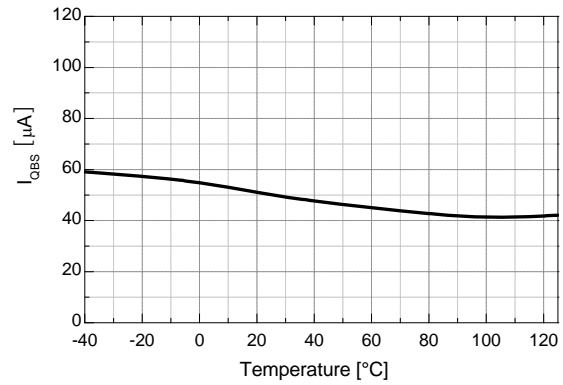


Figure 13. Quiescent V_{BS} Supply Current vs. Temperature

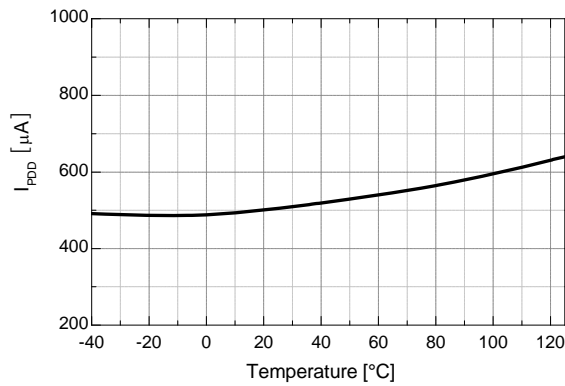


Figure 14. Operating V_{DD} Supply Current vs. Temperature

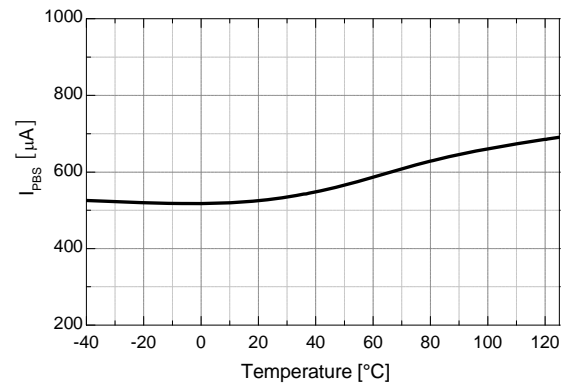


Figure 15. Operating V_{BS} Supply Current vs. Temperature.

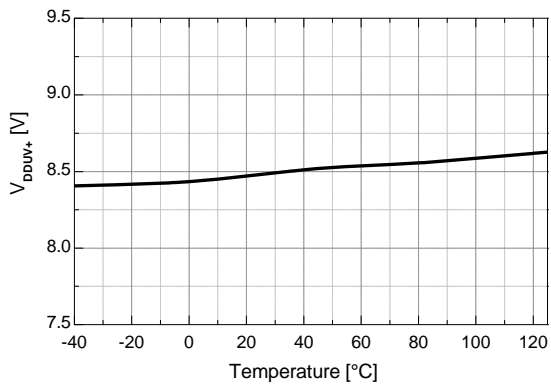


Figure 16. V_{DD} UVLO+ vs. Temperature

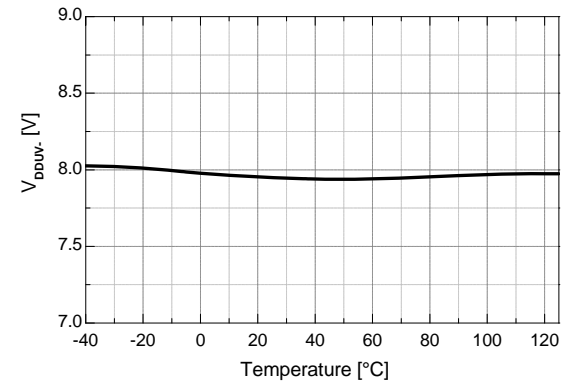


Figure 17. V_{DD} UVLO- vs. Temperature

Typical Characteristics (Continued)

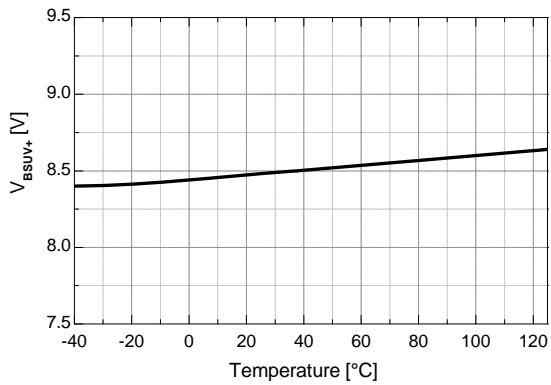


Figure 18. V_{BS} UVLO+ vs. Temperature

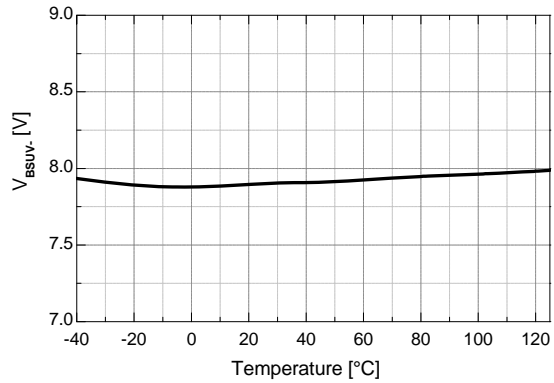


Figure 19. V_{BS} UVLO- vs. Temperature

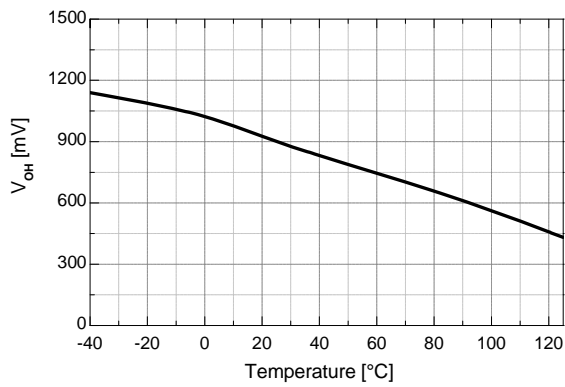


Figure 20. High-Level Output Voltage vs. Temperature

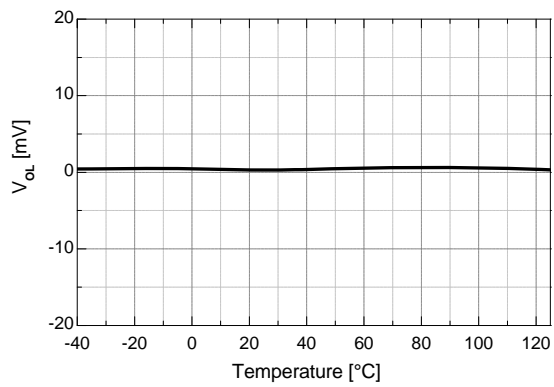


Figure 21. Low-Level Output Voltage vs. Temperature

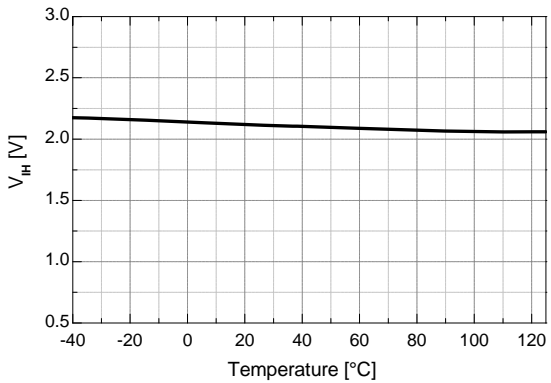


Figure 22. Logic High Input Voltage vs. Temperature

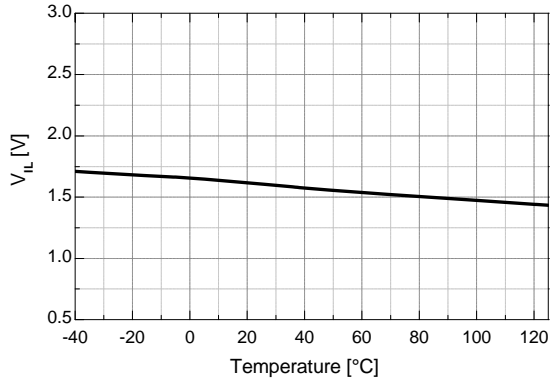


Figure 23. Low Input Voltage vs. Temperature

Typical Characteristics (Continued)

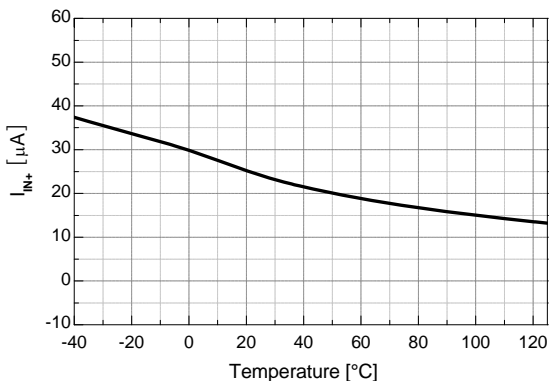


Figure 24. Logic Input High Bias Current vs. Temperature

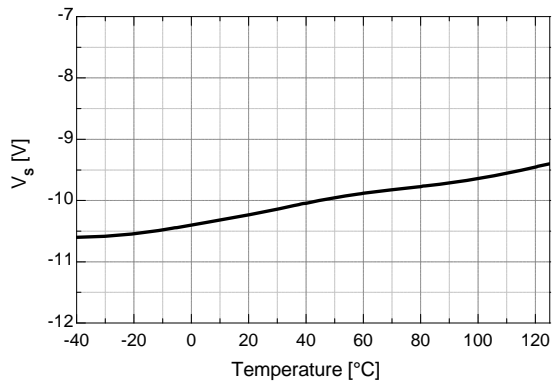


Figure 25. Allowable Negative V_S Voltage vs. Temperature

Switching Time Definitions

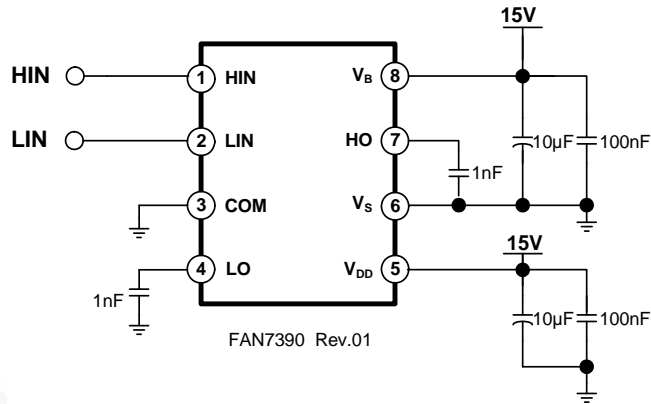


Figure 26. Switching Time Test Circuit (Referenced 8-SOP)

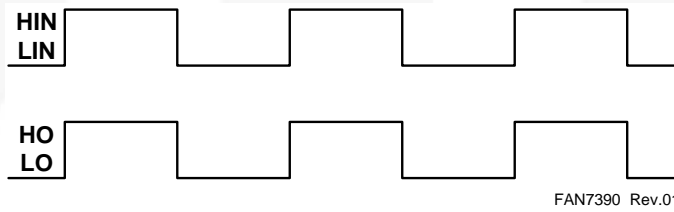


Figure 27. Input/Output Timing Diagram

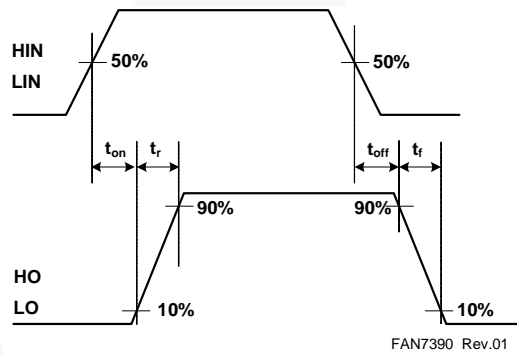


Figure 28. Switching Time Waveform Definitions

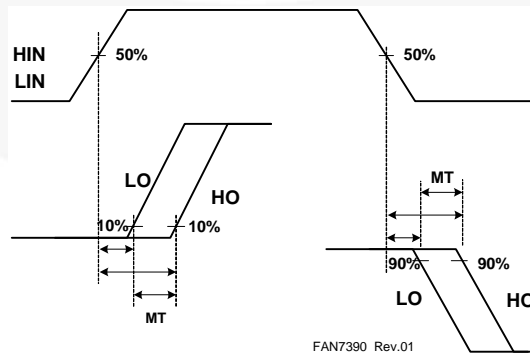


Figure 29. Delay Matching Waveform Definitions

Physical Dimensions

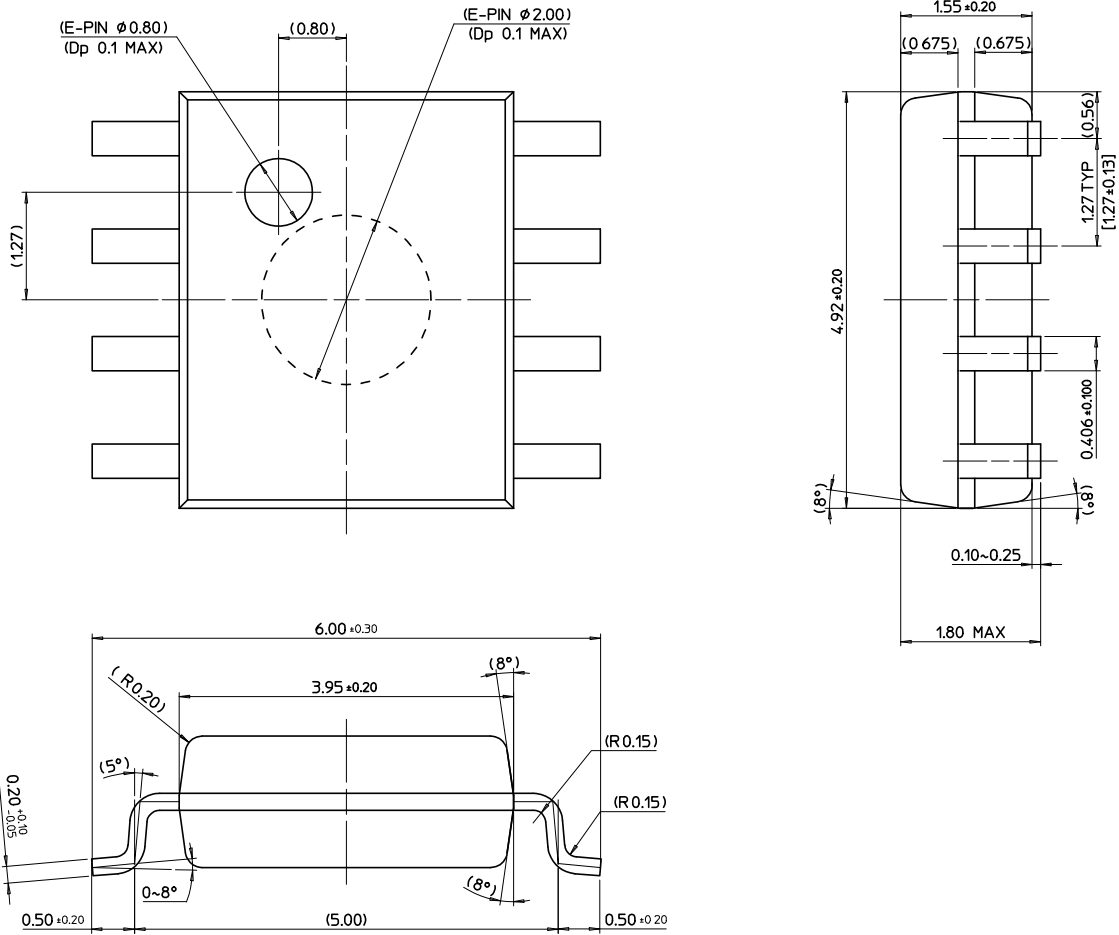


Figure 30. 8-Lead Small Outline Package (SOP)

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Physical Dimensions (Continued)

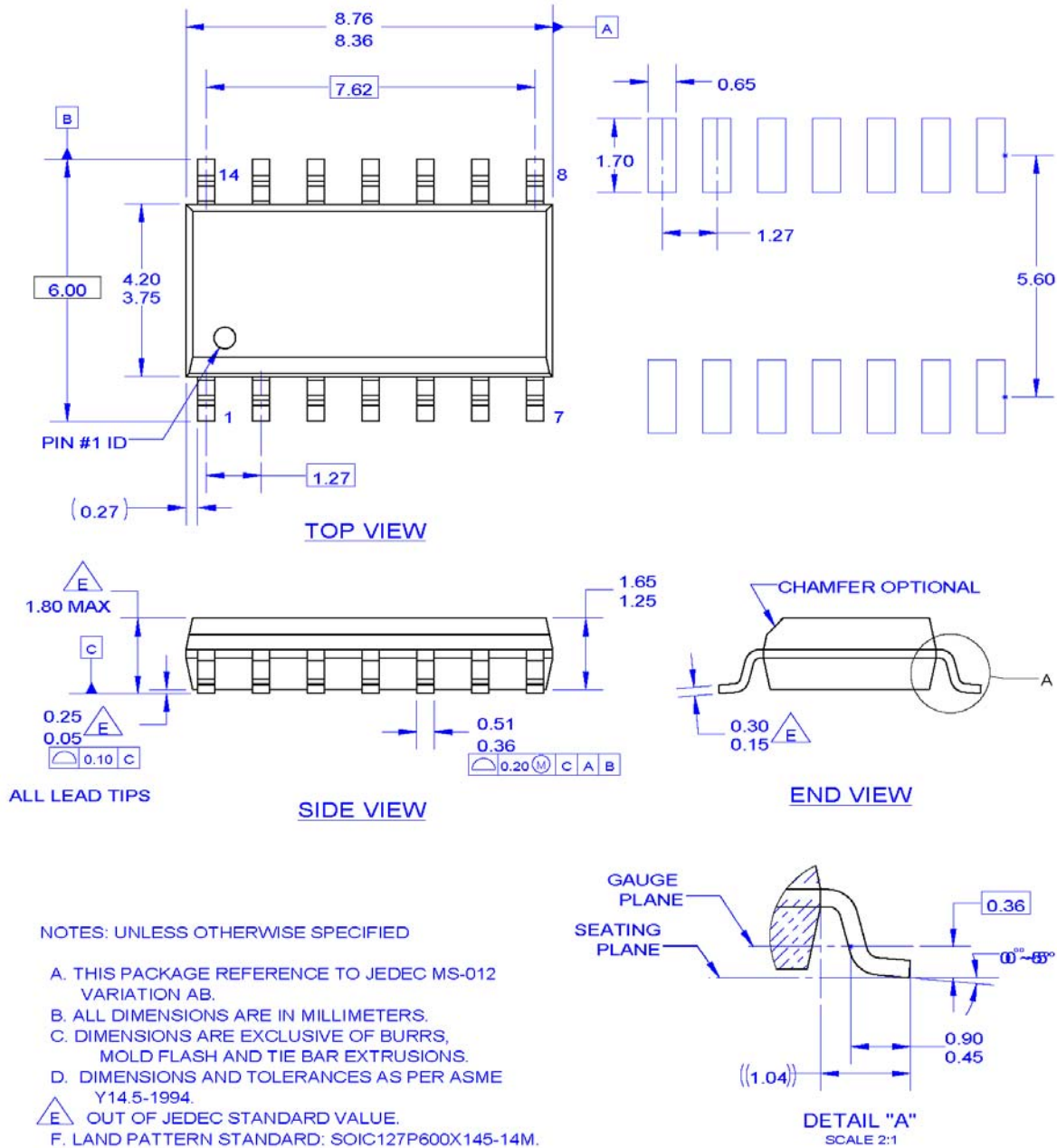


Figure 31. 14-Lead Small Outline Package (SOP)

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Rev. I62

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