

1.6 Ω On Resistance, ± 5 V, +12 V, and +3 V Quad SPST Switches

DESCRIPTION

The DG9424E, DG9425E, DG9426E are monolithic quad single-pole-single-throw analog switches. The G9424E and DG9425E differ only in that they respond to opposite logic levels. The DG9426E has two normally open and two normally closed switches. It can be given various configurations, including four SPST, two SPDT, and one DPDT.

Using BiCMOS wafer fabrication technology allows the DG9424E, DG9425E, and DG9426E to operate on single and dual supplies. Single supply voltage ranges from 3 V to 16 V while dual supply operation is recommended with ± 3 V to ± 8 V. Each switch conducts equally well in both direction when on, and blocks input voltages up to the supply levels when off.

The low and flat on resistance over the full input signal voltage range bring excellent linearity, reduce insertion loss and signal distortion, make them ideal for data acquisition and programmable gain control applications. These switch characters also make them ideal fit for audio signal switch and reed relay replacement.

The DG9424E, DG9425E, DG9426E feature low power dissipation, fast switching speed, and low voltage logic control threshold. Proprietary design enables the low charge injection that minimize the switching transient.

Operation temperature is specified from -40 °C to +85 °C. The DG9424E, DG9425E, DG9426E are available in 16 lead TSSOP packages.

FEATURES

- 3 V to 16 V single supply or ± 3 V thru ± 8 V dual supply operation
- 1.6 Ω typical on resistance
- 3 V logic compatible for control
- Bi-directional rail to rail signal switching
- Fast switching speed
- < 0.2 nA switch on leakage
- Break-before-make switching - DG9426

BENEFITS

- Wide operation voltage range
- Low signal errors and distortion
- Fast switching time
- Simple interfacing

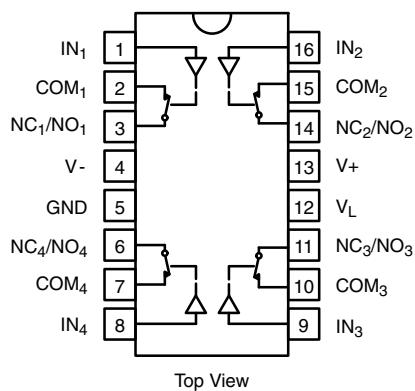
APPLICATIONS

- Automatic test equipment
- Data acquisition systems
- Meters and instruments
- Medical and healthcare systems
- Communication systems
- Audio and video signal routing
- Relay replacement
- Battery powered systems
- Computer peripherals
- Audio and video signal routing

FUNCTIONAL BLOCK DIAGRAM AND PIN CONFIGURATION

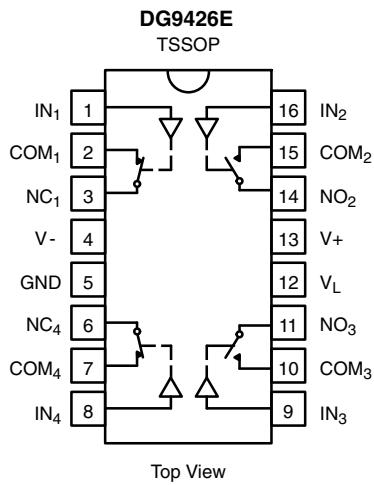
DG9424E / DG9425E

TSSOP



TRUTH TABLE

| LOGIC | DG9424E | DG9425E |
|-------|---------|---------|
| 0 | OFF | ON |
| 1 | ON | OFF |

FUNCTIONAL BLOCK DIAGRAM AND PIN CONFIGURATION

TRUTH TABLE

| LOGIC | SW ₁ , SW ₄ | SW ₂ , SW ₃ |
|-------|-----------------------------------|-----------------------------------|
| 0 | ON | OFF |
| 1 | OFF | ON |

| ORDERING INFORMATION | | | | |
|-----------------------------|--------------|------------------|--------------|--------------------------|
| TEMP. RANGE | PACKAGE | PART NUMBER | PART MARKING | STD PACK QUANTITY |
| -40 °C to +85 °C | 16-Pin TSSOP | DG9424EDQ-T1-GE3 | 9424E | Tape and Reel 3000 Units |
| | | DG9425EDQ-T1-GE3 | 9425E | Tape and Reel 3000 Units |
| | | DG9426EDQ-T1-GE3 | 9426E | Tape and Reel 3000 Units |

| ABSOLUTE MAXIMUM RATINGS | | |
|---|---------------------------|------|
| PARAMETER | LIMIT | UNIT |
| V+ to V- | -0.3 to +18 | V |
| GND to V- | 18 | |
| V _L | (GND - 0.3) to (V+) + 0.3 | |
| IN, COM, NC, NO ^a | (V-) - 0.3 to (V+) + 0.3 | |
| Continuous Current (NO, NC, COM Pins) | 100 | mA |
| Peak Current, S or D (Pulsed 1 ms, 10 % Duty Cycle) | 200 | |
| Storage Temperature | -65 to +150 | °C |
| Power Dissipation (Package) ^b | 450 | mW |
| Thermal Resistance ^b | 178 | °C/W |
| ESD Human Body Model (HBM); per ANSI / ESDA / JEDEC® JS-001 | >1500 | V |
| Latch Up Current, per JESD78D | 400 | mA |

Notes

- a. Signals on NC, NO, COM or IN exceeding V+ or V- will be clamped by internal diodes. Limit forward diode current to maximum current ratings.
- b. All leads welded or soldered to PC board.
- c. Derate 7 mW/°C above 25 °C.

Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of the specifications is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

| SPECIFICATIONS ^a Single Supply 12 V | | | | | | | | | |
|---|------------------------|---|---------------------------|---|--------------------------|--------------------------|---------------|---------------|--|
| PARAMETER | SYMBOL | TEST CONDITIONS UNLESS OTHERWISE SPECIFIED $V_+ = 12 \text{ V}$, $V_- = 0 \text{ V}$ $V_L = 5 \text{ V}$, $V_{IN} = 2.4 \text{ V}$, 0.8 V^f | TEMP. ^b | LIMITS -40°C to $+85^\circ\text{C}$ | | | UNIT | | |
| | | | | MIN. ^d | TYP. ^c | MAX. ^d | | | |
| Analog Switch | | | | | | | | | |
| Analog Signal Range ^e | V_{ANALOG} | | | Full | 0 | - | 12 | V | |
| On-Resistance | R_{ON} | $V_+ = 10.8 \text{ V}$, $V_- = 0 \text{ V}$ I_{NO} , $I_{NC} = 50 \text{ mA}$, $V_{COM} = 2/9 \text{ V}$ | | Room | - | 1.6 | 3 | Ω | |
| | | | | Full | - | - | 4 | | |
| Digital Control | | | | | | | | | |
| Input Current | I_{INL} or I_{INH} | | | Full | -1 | 0.01 | 1 | μA | |
| Dynamic Characteristics | | | | | | | | | |
| Turn-On Time ^e | t_{ON} | $R_L = 300 \Omega$, $C_L = 35 \text{ pF}$ V_{NO} , $V_{NC} = 5 \text{ V}$, see fig. 2 | Room | - | 36 | 51 | ns | | |
| | | | Full | - | - | 65 | | | |
| Turn-Off Time ^e | t_{OFF} | | Room | - | 20 | 35 | | | |
| | | | Full | - | - | 44 | | | |
| Break-Before-Make Time Delay ^e | t_D | DG9426E only, V_{NO} , $V_{NC} = 5 \text{ V}$ $R_L = 300 \Omega$, $C_L = 35 \text{ pF}$ | Room | 2 | - | - | | | |
| Charge Injection ^e | Q_{INJ} | $V_g = 0 \text{ V}$, $R_g = 0 \Omega$, $C_L = 1 \text{ nF}$ | Room | - | 38 | - | pC | | |
| Off-Isolation ^e | OIRR | $R_L = 50 \Omega$, $C_L = 5 \text{ pF}$ $f = 1 \text{ MHz}$ | Room | - | -56 | - | dB | | |
| Channel-to-Channel Crosstalk ^e | X_{TALK} | | Room | - | -77 | - | | | |
| NO, NC Off Capacitance ^e | $C_{NO(off)}$ | | Room | - | 49 | - | pF | | |
| | $C_{NC(off)}$ | | Room | - | 37 | - | | | |
| COM Off Capacitance ^e | $C_{COM(off)}$ | $f = 1 \text{ MHz}$ | Room | - | 89 | - | | | |
| Channel On Capacitance ^e | $C_{COM(on)}$ | | Room | - | - | - | | | |
| Power Supplies | | | | | | | | | |
| Positive Supply Current | I_+ | $V_{IN} = 0$ or V_L | Room | - | 0.02 | 1 | μA | | |
| | | | Full | - | - | 5 | | | |
| Negative Supply Current | I_- | | Room | -1 | -0.002 | - | | | |
| | | | Full | -5 | - | - | | | |
| Logic Supply Current | I_L | | Room | - | 0.002 | 1 | | | |
| | | | Full | - | - | 5 | | | |
| Ground Current | I_{GND} | | Room | -1 | -0.002 | - | | | |
| | | | Full | -5 | - | - | | | |

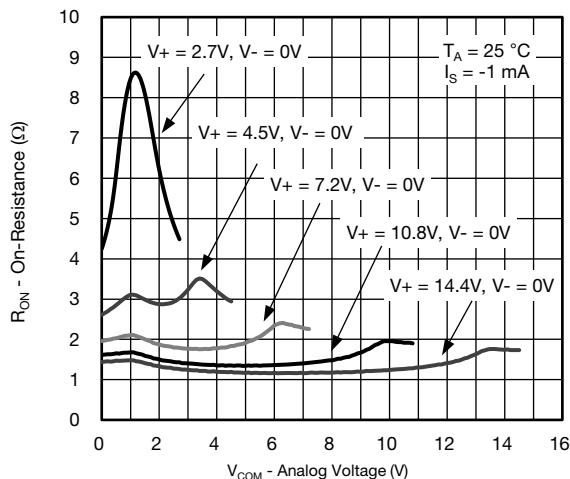
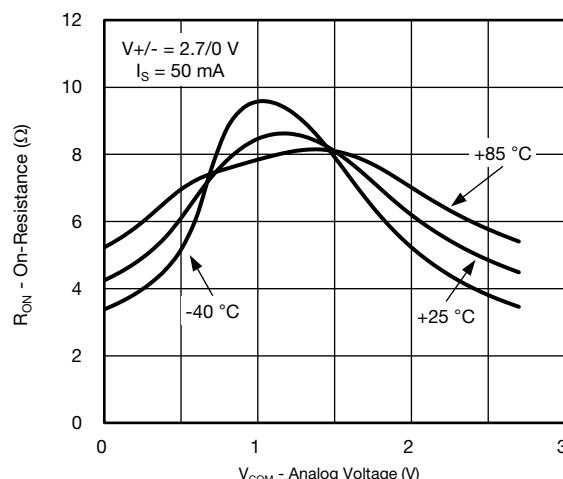
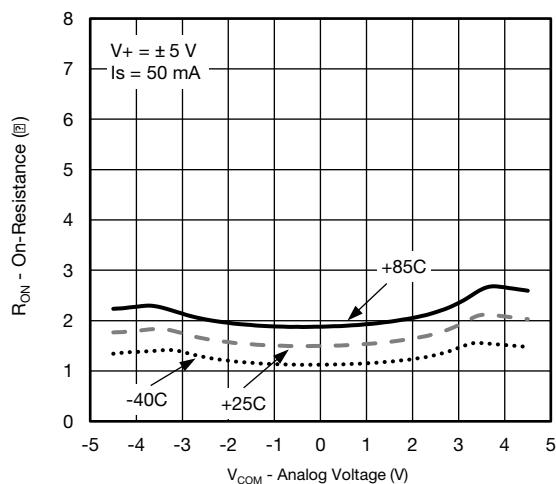
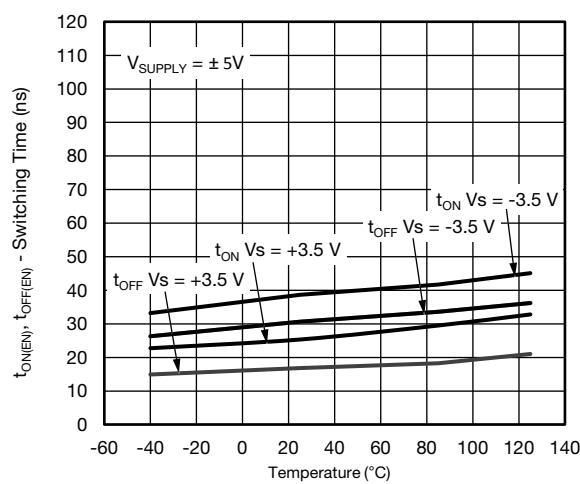
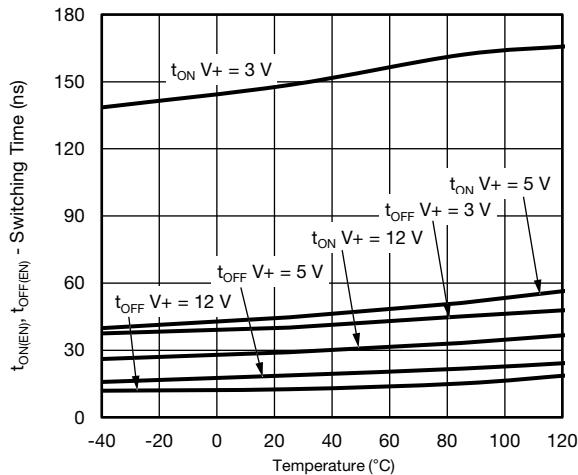
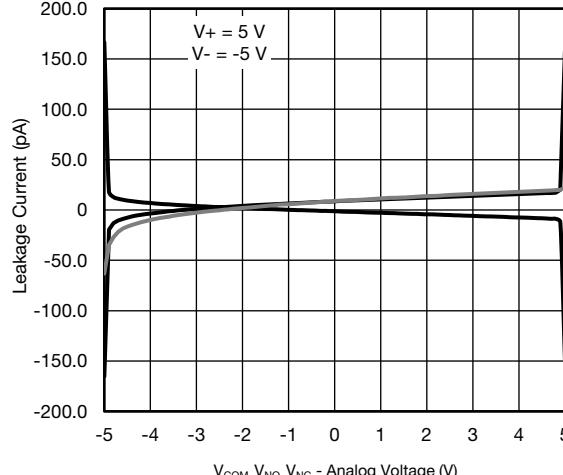
| SPECIFICATIONS ^a Dual Supply ± 5 V | | | | | | | | |
|--|------------------------|--|---------------------------|---------------------------------------|--------------------------|--------------------------|-------------|--|
| PARAMETER | SYMBOL | TEST CONDITIONS UNLESS OTHERWISE SPECIFIED $V_+ = 5$ V, $V_- = 5$ V $V_L = 5$ V, $V_{IN} = 2.4$ V, 0.8 V ^f | TEMP. ^b | LIMITS -40 °C to $+85$ °C | | | UNIT | |
| | | | | MIN. ^d | TYP. ^c | MAX. ^d | | |
| Analog Switch | | | | | | | | |
| Analog Signal Range ^e | V_{ANALOG} | | Full | -5 | | 5 | V | |
| On-Resistance | R_{ON} | $V_+ = 4.5$ V, $V_- = -4.5$ V $I_{NO}, I_{NC} = 50$ mA | Room | - | 1.9 | 3.3 | Ω | |
| | | | Full | - | - | 4.3 | | |
| Switch Off Leakage Current | $I_{NO(off)}$ | $V_+ = 5.5$ V, $V_- = -5.5$ V $V_{COM} = \pm 4.5$ V, $V_{NO}, V_{NC} = \pm 4.5$ V | Room | -1 | - | 1 | nA | |
| | $I_{NC(off)}$ | | Full | -10 | - | 10 | | |
| | $I_{COM(off)}$ | | Room | -1 | - | 1 | | |
| | | | Full | -10 | - | 10 | | |
| Channel On Leakage Current | $I_{COM(on)}$ | $V_+ = 5.5$ V, $V_- = -5.5$ V, $V_{NO}, V_{NC} = V_{COM} = \pm 4.5$ V | Room | -1 | - | 1 | | |
| | | | Full | -10 | - | 10 | | |
| Digital Control | | | | | | | | |
| Input Current ^a | I_{INL} or I_{INH} | | Full | -1 | 0.05 | 1 | μA | |
| Dynamic Characteristics | | | | | | | | |
| Turn-On Time ^e | t_{ON} | $R_L = 300$ Ω , $C_L = 35$ pF $V_{NO}, V_{NC} = \pm 3.5$ V, see fig. 2 | Room | - | 48 | 67 | ns | |
| | | | Full | - | - | 81 | | |
| Turn-Off Time ^e | t_{OFF} | | Room | - | 34 | 57 | | |
| | | | Full | - | - | 67 | | |
| Break-Before-Make Time Delay ^e | t_D | DG9426E only, $V_{NO}, V_{NC} = 3.5$ V $R_L = 300$ Ω , $C_L = 35$ pF | Room | 2 | - | - | | |
| Charge Injection ^e | Q_{INJ} | $V_g = 0$ V, $R_g = 0$ Ω , $C_L = 1$ nF | Room | - | 112 | - | pC | |
| Off Isolation ^e | $OIRR$ | $R_L = 50$ Ω , $C_L = 5$ pF, $f = 1$ MHz | Room | - | -56 | - | dB | |
| Channel-to-Channel Crosstalk ^e | X_{TALK} | | Room | - | -82 | - | | |
| Source Off Capacitance ^e | $C_{NO(off)}$ | $f = 1$ MHz | Room | - | 38 | - | pF | |
| Drain Off Capacitance ^e | $C_{COM(off)}$ | | Room | - | 38 | - | | |
| Channel On Capacitance ^e | $C_{COM(on)}$ | | Room | - | 89 | - | | |
| Power Supplies | | | | | | | | |
| Positive Supply Current ^e | I_+ | $V_{IN} = 0$ or V_L | Room | - | 0.03 | 1 | μA | |
| | | | Full | - | - | 5 | | |
| Negative Supply Current ^e | I_- | | Room | -1 | -0.002 | - | | |
| | | | Full | -5 | - | - | | |
| Logic Supply Current ^e | I_L | | Room | - | 0.002 | 1 | | |
| | | | Full | - | - | 5 | | |
| Ground Current ^e | I_{GND} | | Room | -1 | -0.002 | - | | |
| | | | Full | -5 | - | - | | |

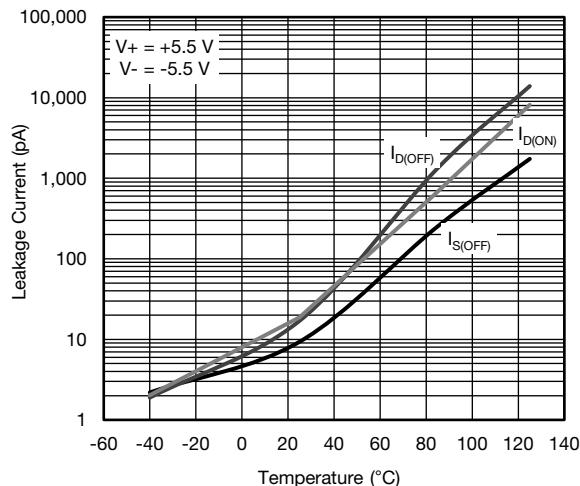
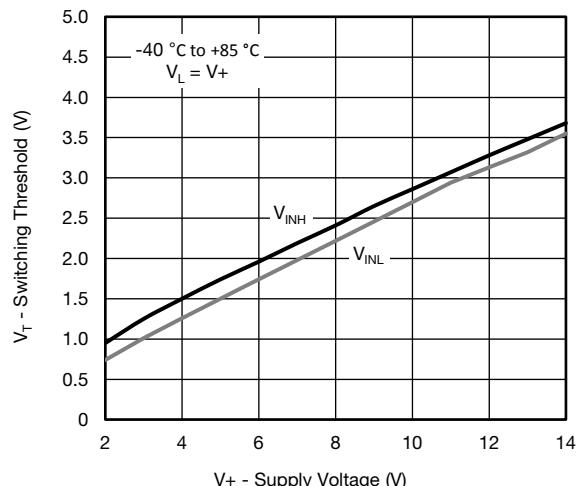
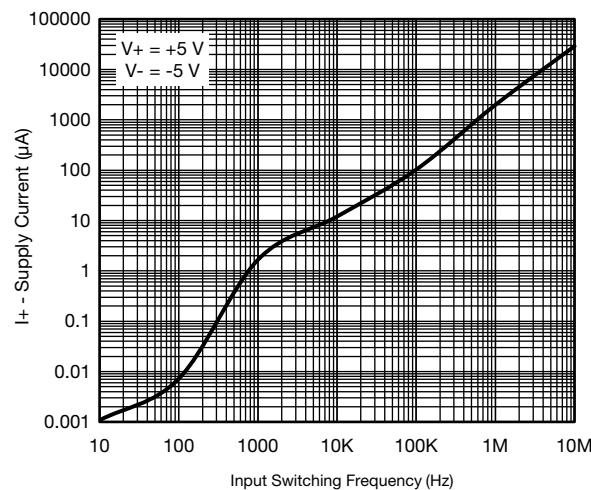
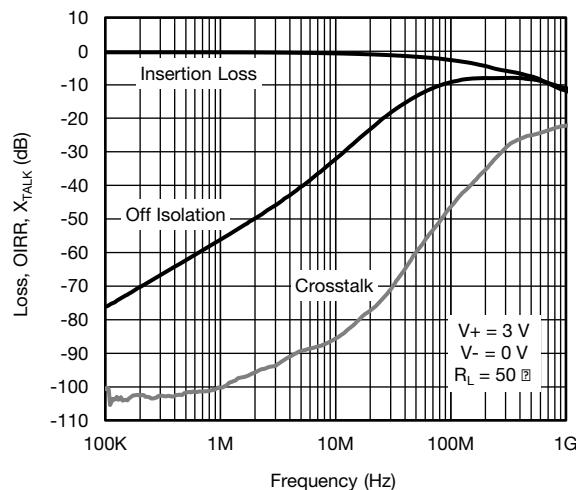
| SPECIFICATIONS ^a Single Supply 5 V | | | | | | | | |
|--|--------------|---|--------------------|--|-------------------|-------------------|---------------|--|
| PARAMETER | SYMBOL | TEST CONDITIONS UNLESS OTHERWISE SPECIFIED $V_+ = 5 \text{ V}$, $V_- = 0 \text{ V}$ $V_L = 5 \text{ V}$, $V_{IN} = 2.4 \text{ V}$, 0.8 V ^f | TEMP. ^b | LIMITS -40°C to $+85^\circ\text{C}$ | | | UNIT | |
| | | | | MIN. ^d | TYP. ^c | MAX. ^d | | |
| Analog Switch | | | | | | | | |
| Analog Signal Range ^e | V_{ANALOG} | | Full | - | - | 5 | V | |
| On-Resistance ^e | R_{ON} | $V_+ = 4.5 \text{ V}$, $I_{NO}, I_{NC} = 50 \text{ mA}$ | Room | - | 3.1 | 4.8 | Ω | |
| | | | Full | - | - | 5.8 | | |
| Dynamic Characteristics | | | | | | | | |
| Turn-On Time ^e | t_{ON} | $R_L = 300 \Omega$, $C_L = 35 \text{ pF}$ $V_{NO}, V_{NC} = 3.5 \text{ V}$, see fig. 2 | Room | - | 62 | 78 | ns | |
| | | | Hot | - | - | 106 | | |
| Turn-Off Time ^e | t_{OFF} | | Room | - | 29 | 44 | | |
| | | | Hot | - | - | 56 | | |
| Break-Before-Make Time Delay ^e | t_D | DG9426E only, $V_{NO}, V_{NC} = 3.5 \text{ V}$ $R_L = 300 \Omega$, $C_L = 35 \text{ pF}$ | Room | 5 | - | - | | |
| Charge Injection ^e | Q_{INJ} | $V_g = 0 \text{ V}$, $R_g = 0 \Omega$, $C_L = 1 \text{nF}$ | Room | - | 10 | - | pC | |
| Power Supplies | | | | | | | | |
| Positive Supply Current ^e | I_+ | $V_{IN} = 0 \text{ or } V_L$ | Room | - | 0.02 | 1 | μA | |
| | | | Hot | - | - | 5 | | |
| Negative Supply Current ^e | I_- | | Room | -1 | -0.002 | - | | |
| | | | Hot | -5 | - | - | | |
| Logic Supply Current ^e | I_L | | Room | - | 0.002 | 1 | | |
| | | | Hot | - | - | 5 | | |
| Ground Current ^e | I_{GND} | | Room | -1 | -0.002 | - | | |
| | | | Hot | -5 | - | - | | |

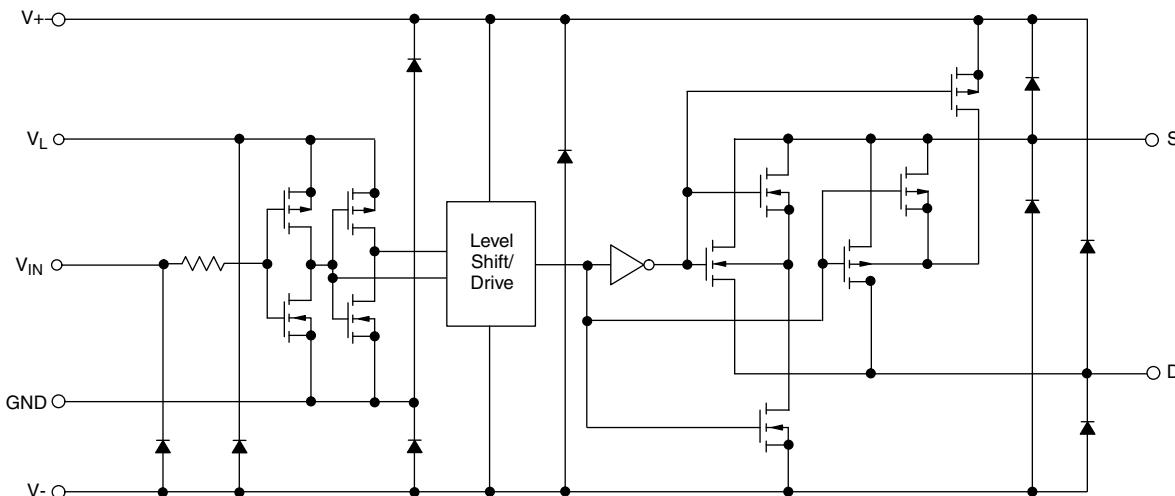
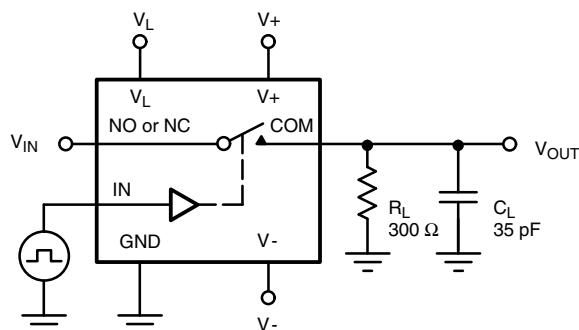
| SPECIFICATIONS ^a Single Supply 3 V | | | | | | | | |
|--|------------------------|--|--------------------------|---|-------------------------|-------------------------|---------------|--|
| PARAMETER | SYMBOL | TEST CONDITIONS UNLESS OTHERWISE SPECIFIED $V_+ = 3 \text{ V}$, $V_- = 0 \text{ V}$ $V_L = 3 \text{ V}$, $V_{IN} = 2.4 \text{ V}$, 0.4 V^f | TEMP.^b | LIMITS -40°C to $+85^\circ\text{C}$ | | | UNIT | |
| | | | | MIN.^d | TYP.^c | MAX.^d | | |
| Analog Switch | | | | | | | | |
| Analog Signal Range ^e | V_{ANALOG} | | Full | 0 | - | 3 | V | |
| On-Resistance | R_{ON} | $V_+ = 2.7 \text{ V}$, $V_- = 0 \text{ V}$ $I_{NO}, I_{NC} = 5 \text{ mA}$, $V_{COM} = 0.5, 2.2 \text{ V}$ | Room | - | 6 | - | Ω | |
| | | | Full | - | - | - | | |
| Switch Off Leakage Current ^a | $I_{NO(off)}$ | $V_+ = 3.3 \text{ V}$, $V_- = 0 \text{ V}$ $V_{COM} = 0.3, 3 \text{ V}$, $V_{NO}, V_{NC} = 3, 0.3 \text{ V}$ | Room | -1 | - | 1 | nA | |
| | $I_{NC(off)}$ | | Full | -10 | - | 10 | | |
| | $I_{COM(off)}$ | | Room | -1 | - | 1 | | |
| | $I_{COM(on)}$ | | Full | -10 | - | 10 | | |
| Digital Control ^e | | | | | | | | |
| Input Current | I_{INL} or I_{INH} | | Full | -1 | 0.005 | 1 | μA | |
| Dynamic Characteristics | | | | | | | | |
| Turn-On Time | t_{ON} | $R_L = 300 \Omega$, $C_L = 35 \text{ pF}$ $V_{NO}, V_{NC} = 1.5 \text{ V}$, see fig. 2 | Room | - | 140 | - | ns | |
| | | | Full | - | - | 193 | | |
| Turn-Off Time | t_{OFF} | | Room | - | 65 | - | | |
| | | | Full | - | - | 89 | | |
| Break-Before-Make Time Delay | t_D | $DG9426E$ only, $V_{NO}, V_{NC} = 1.5 \text{ V}$ $R_L = 300 \Omega$, $C_L = 35 \text{ pF}$ | Room | 5 | | | | |
| Charge Injection ^e | Q_{INJ} | $V_g = 0 \text{ V}$, $R_g = 0 \Omega$, $C_L = 1 \text{nF}$ | Room | - | 15 | - | pC | |
| Off Isolation ^e | OIRR | $R_L = 50 \Omega$, $C_L = 5 \text{ pF}$ $f = 1 \text{ MHz}$ | Room | - | -56 | - | dB | |
| Channel-to-Channel Crosstalk ^e | X_{TALK} | | Room | - | -80 | - | | |
| Source Off Capacitance ^e | $C_{NO(off)}$ | $f = 1 \text{ MHz}$ | Room | - | 53 | - | pF | |
| | $C_{NC(off)}$ | | Room | - | 42 | - | | |
| Drain Off Capacitance ^e | $C_{COM(off)}$ | | Room | - | 92 | - | | |
| Channel On Capacitance ^e | $C_{COM(on)}$ | | | | | | | |

Notes

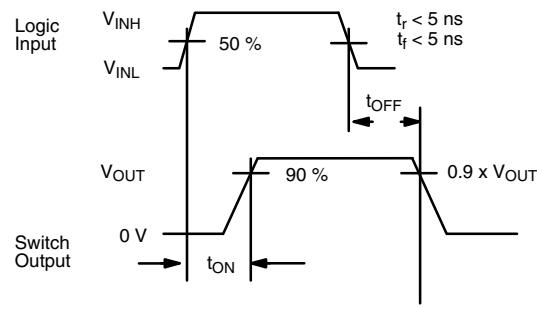
- a. Leakage parameters are guaranteed by worst case test conditions and not subject to production test.
- b. Room = 25°C , Full = As determined by the operating temperature suffix.
- c. Typical values are for DESIGN AID ONLY, not guaranteed nor subject to production testing.
- d. The algebraic convention whereby the most negative value is a minimum and the most positive a maximum, is used in this datasheet.
- e. Guaranteed by design, not subject to production test.
- f. V_{IN} = Input voltage to perform proper function.

TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)

 R_{ON} vs. V_{COM} and Supply Voltage

 R_{ON} vs. Analog Voltage and Temperature

 R_{ON} vs. Analog Voltage and Temperature

Switching Time vs. Temperature and Dual Supply Voltage

Switching Time vs. Temperature and Single Supply Voltage

Leakage Current vs. Analog Voltage

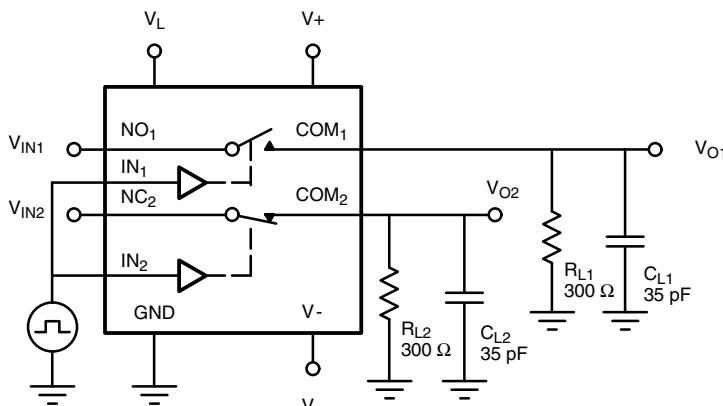
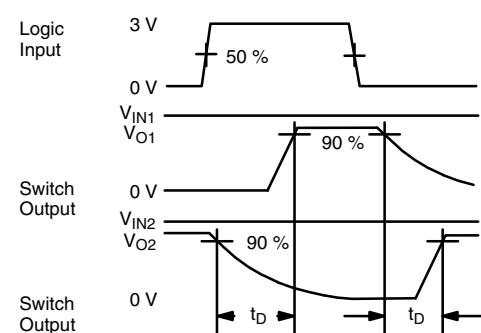
TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)

Leakage Current vs. Temperature

Switching Threshold vs. Supply Voltage

Switching Current vs. Input Switching Frequency

Insertion Loss, Off Isolation and Crosstalk vs. Frequency

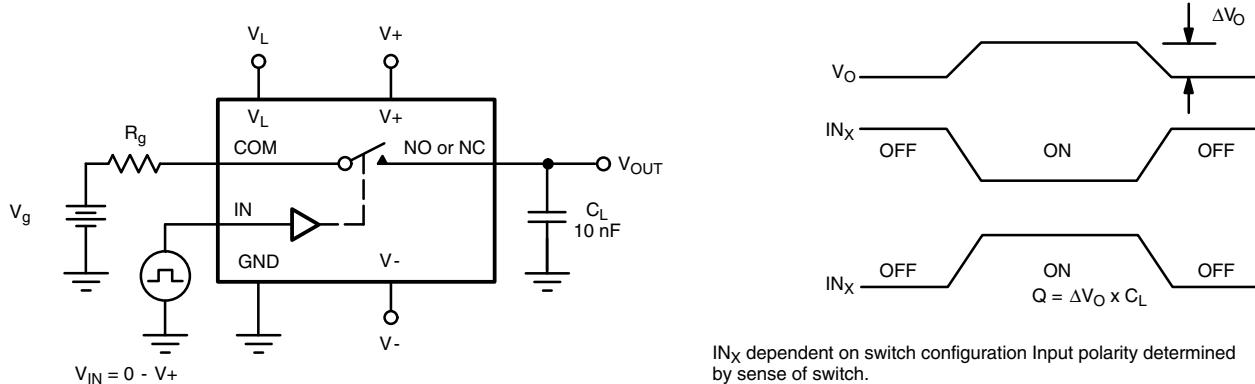
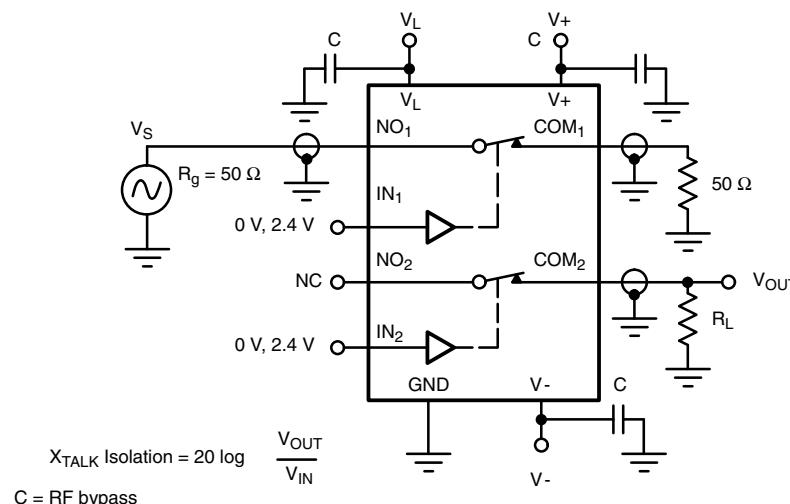
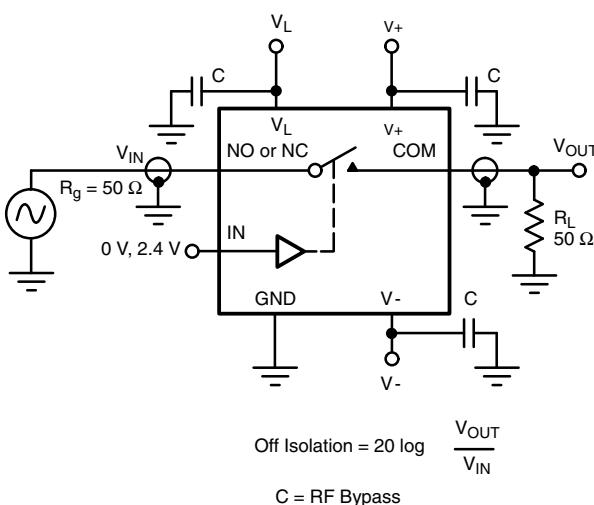
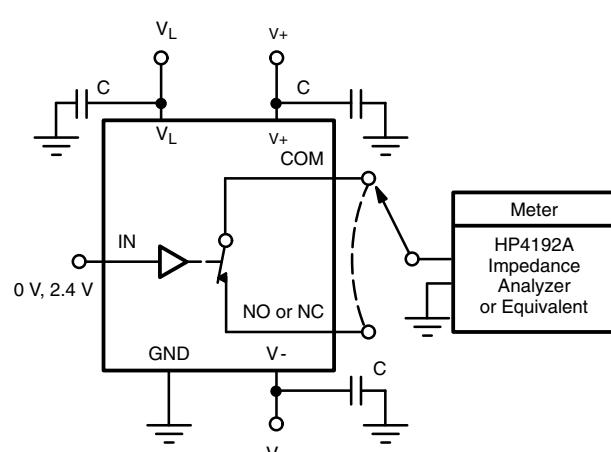
SCHEMATIC DIAGRAM (typical channel)

Fig. 1
TEST CIRCUITS

 C_L (includes fixture and stray capacitance)

$$V_{OUT} = V_{IN} \cdot \frac{R_L}{R_L + r_{ON}}$$



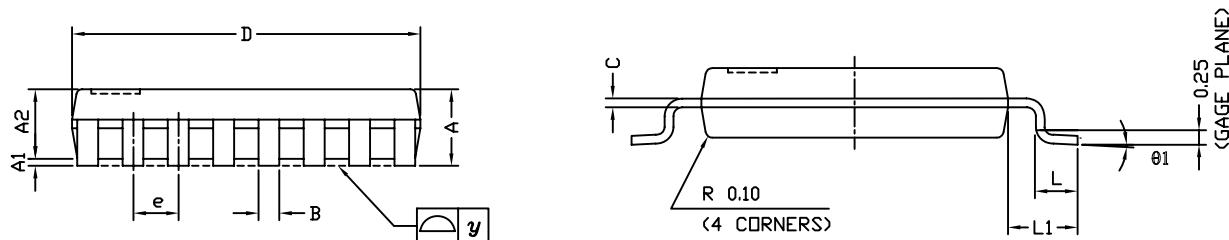
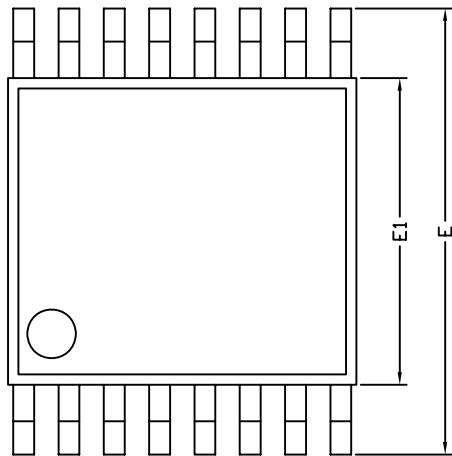
Note: Logic input waveform is inverted for switches that have the opposite logic sense control

Fig. 2 - Switching Time

 C_L (includes fixture and stray capacitance)

Fig. 3 - Break-Before-Make (DG9426E)

TEST CIRCUITS

Fig. 4 - Charge Injection

Fig. 5 - Crosstalk

Fig. 6 - Off-Isolation

Fig. 7 - Source/Drain Capacitances

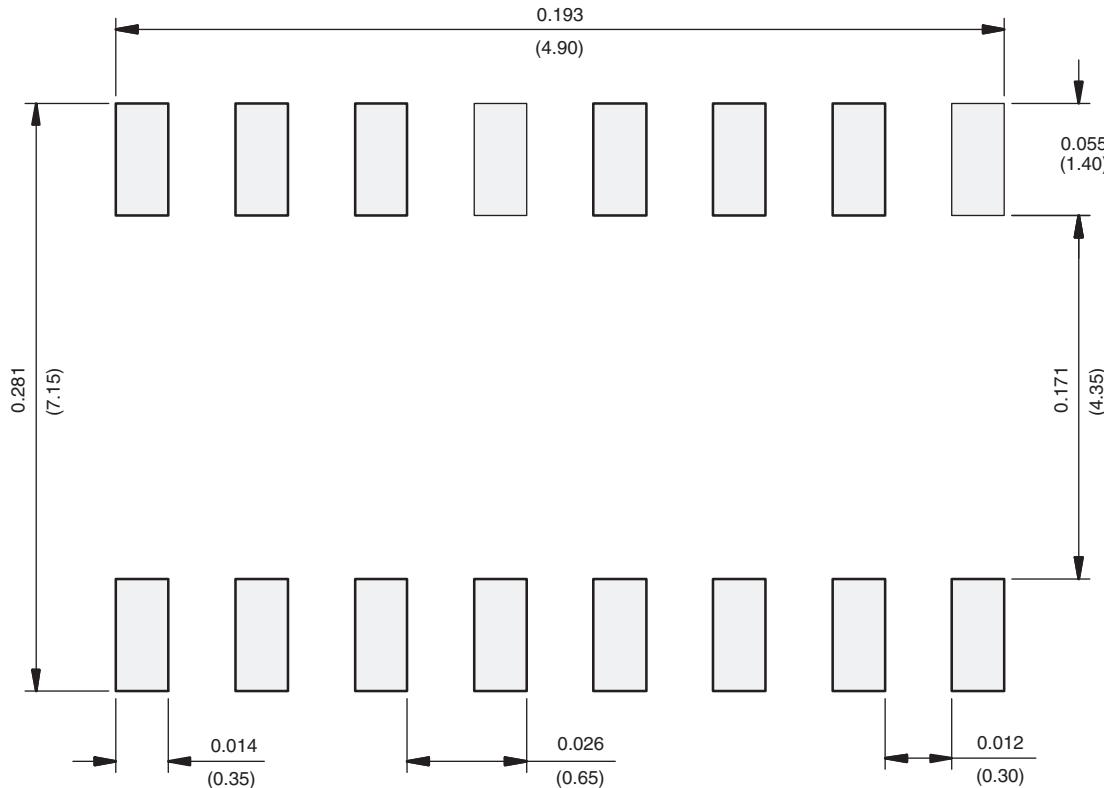
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TSSOP: 16-LEAD



| Symbols | DIMENSIONS IN MILLIMETERS | | |
|---------|---------------------------|-------|------|
| | Min | Nom | Max |
| A | - | 1.10 | 1.20 |
| A1 | 0.05 | 0.10 | 0.15 |
| A2 | - | 1.00 | 1.05 |
| B | 0.22 | 0.28 | 0.38 |
| C | - | 0.127 | - |
| D | 4.90 | 5.00 | 5.10 |
| E | 6.10 | 6.40 | 6.70 |
| E1 | 4.30 | 4.40 | 4.50 |
| e | - | 0.65 | - |
| L | 0.50 | 0.60 | 0.70 |
| L1 | 0.90 | 1.00 | 1.10 |
| y | - | - | 0.10 |
| θ1 | 0° | 3° | 6° |

ECN: S-61920-Rev. D, 23-Oct-06
DWG: 5624

RECOMMENDED MINIMUM PAD FOR TSSOP-16

Recommended Minimum Pads
Dimensions in inches (mm)



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- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помошь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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