DG2002E



Power-off Protection, 6 Ω , 1.8 V to 5.5 V, SPDT Analog Switch (2:1 Multiplexer)

DESCRIPTION

The DG2002E is a high performance single-pole, double-throw (SPDT) analog switch designed for 1.8 V to 5.5 V operation with a single power rail.

Fabricated with high density CMOS technology, the device achieves low on resistance of 6 Ω and switch off capacitance of 7 pF at a 5 V power supply and low power consumption, and fast switching speeds. Its charge injection is 1 pC.

The DG2002E can handle both analog and digital signals and permits signals with amplitudes of up to V+ to be transmitted in either direction. Its control logic inputs can go over V+ up to 5.5 V. It features break before make switching performance.

A powered-off protection circuit is built into the switch to prevent an abnormal current flow from COM pin to V+ during the power-down condition. Each output pin can withstand greater than 7 kV (human body model).

Operation temperature is specified from -40 °C to +85 °C. The DG2002E is available in the compact SC-70-6L package.

FEATURES

- Low switch on-resistance (6 Ω)
- +1.8 V to +5.5 V single supply operation
- Powered-off protection
- Control logic inputs can go over V+
- · Low parasitic capacitance, 7 pF at switch off
- Low charge injection, 1 pC
- Break before make switching
- Latch-up performance exceeds 200 mA per JESD 78
- High ESD rating
 - 7000 V human body model (JS-001)
 - 1000 V charge device model (JS-002)
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

Note

This datasheet provides information about parts that are RoHS-compliant and / or parts that are non RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details

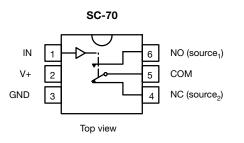
APPLICATIONS

- Battery powered devices
- Instrumentation
- Medical equipment
- Low voltage data acquisistion

Pin 1

- · Control and automation
- · Consumer and computing

FUNCTIONAL BLOCK DIAGRAM AND PIN CONFIGURATION



Device marking: H9

TRUTH TABLE					
LOGIC	NC	NO			
0	On	Off			
1	Of	On			

Notes

- Logic "0" ≤ 0.8 V
- Logic "1" ≥ 2.4 V

ORDERING INFORMATION						
TEMP. RANGE	GE PACKAGE PART NUMBER					
-40 °C to +85 °C	SC-70-6	DG2002EDL-T1-GE3				

Device marking: H9XXX XXX = Date / lot traceability code

H9XXX

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ABSOLUTE MAXIMUM RATINGS						
PARAMETER	LIMIT	UNIT				
V+, COM, NC, NO, IN reference to GND		-0.3 to 6	V			
Continuous current (any terminal)		± 50	mA			
Peak current (pulsed at 1 ms, 10 % dut	/ cycle)	± 200	IIIA			
Storage temperature	Storage temperature		°C			
Power dissipation (packages) ^a	6-pin SC-70 ^b	250	mW			
ESD / HBM	JS-001	7000	V			
ESD / CDM	JS-002	1000	v			
Latch up	Per JESD78 with 1.5 x voltage clamp	200	mA			

Notes

a. All leads welded or soldered to PC board b. Derate 3.1 mW/°C above 70 °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 (V+	= 5 V)						
PARAMETER	SYMBOL	TEST CONDITIONS UNLESS OTHERWISE SPECIFIED	TEMP. ^a	LIMITS -40 °C to +85 °C			
	0111202	$V + = 5 V, \pm 10 \%$ $V_{IN} = 0.8 V \text{ or } 2.4 V ^{e}$		MIN. ^b	TYP. °	MAX. ^b	UNIT
Analog Switch			•				
Analog signal range ^d	V _{NO} , V _{NC} V _{COM}		Full	0	-	V+	V
Drain-source on-resistance ^d	R _{DS(on)}	V+ = 4.5 V, V _{COM} = 3 V, I _{NO} , I _{NC} = 10 mA	Room Full	-	6 8	8 10	
R _{DS(on)} flatness ^d	R _{DS(on)} flatness	V+ = 5 V, V _{COM} = 1.5 V, 3.5 V, I _{NO} , I _{NC} = 10 mA	Room	-	0.4	-	Ω
R _{DS(on)} match ^d	$\Delta R_{DS(on)}$	$V_{+} = 4.5 V, V_{COM} = 3 V, I_{NO}, I_{NC} = 10 mA$	Room	-	0.04	0.2	
	I _{NO(off)} ,		Room	-1.5	-	1.5	
Switch-off leakage current f	I _{NC(off)}	V+ = 5.5 V,	Full	-4	-	4	
Switch-on leakage current		$V_{NO}, V_{NC} = 1 V / 4.5 V, V_{COM} = 4.5 V / 1 V$	Room	-1	-	1	0
	I _{COM(off)}		Full	-4	-	4	nA
		V+ = 5.5 V.	Room	-1	-	1	
Channel-on leakage current f	I _{COM(on)}	$V_{NO}, V_{NC} = V_{COM} = 1 V / 4.5 V$	Full	-4	-	4	
Power-down leakage	I _{PD}	$V_{+} = 0 V, V_{COM} = 5 V, NO/NC open, V_{IN} = GND$	Full	-	-	2	μA
		$V_{+} = 0 V, V_{NO}, V_{NC} = 5 V, COM open, V_{IN} = GND$	Full	-	-	2	
Digital Control							
Input high voltage	V _{INH}		Full	2.4	-	-	V
Input low voltage	V _{INL}		Full	-	-	0.8	v
Input capacitance d	C _{IN}		Full	-	6	-	pF
Input current	I _{INL} or I _{INH}	$V_{IN} = 0 V \text{ or } V+$	Full	-1	-	1	μA
Dynamic Characteristics	•		•	•	•		
Turne on time d	1		Room	-	10	30	
Turn-on time ^d	t _{ON}		Full	-	-	32	
Turn-off time ^d		V_{NO} or V_{NC} = 3 V, R_L = 300 Ω , C_L = 35 pF	Room	-	8	24	ns
Turn-off time "	t _{OFF}		Full	-	-	26	
Break-before-make time d	t _{BBM}		Room	1	-	-	1
Charge injection d	Q _{INJ}	$C_L = 1 \text{ nF}, V_{GEN} = 0 \text{ V}, V_{NO}, V_{NC} = 0 \text{ V}, R_{GEN} = 0 \Omega$	Room	-	1	-	рС
Off-isolation ^d	OIRR		Room	-	-78	-	
Crosstalk ^d	X _{TALK}	$R_L = 50 \Omega$, $C_L = 5 pF$, $f = 1 MHz$	Room	-	-77	-	dB
NO NO off approximate d	C _{NO(off)}	V _{IN} = 0 V or V+, f = 1 MHz	Room	-	7	-	
NO, NC off capacitance d	C _{NC(off)}		Room	-	7	-	pF
Channel-on capacitance ^d	C _{ON}		Room	-	13	-	1
Power Supply							
Power supply current ^d	l+	$V_{IN} = 0 V \text{ or } V+$	Full	-	0.004	1	μA

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For technical questions, contact: analogswitchtechsupport@vishay.com

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SPECIFICATIONS (V+	= 3 V)						
PARAMETER	SYMBOL	TEST CONDITIONS UNLESS OTHERWISE SPECIFIED $V+ = 3 V, \pm 10 \%$ $V_{IN} = 0.4 V \text{ or } 2 V e$	TEMP. ^a	LIMITS -40 °C to +85 °C			
				MIN. ^b	TYP. °	MAX. ^b	•••••
Analog Switch							
Analog signal range ^d	V _{NO} , V _{NC} V _{COM}		Full	0	-	V+	V
Drain-source on-resistance ^d	R _{DS(on)}	V+ = 2.7 V, V _{COM} = 1.5 V, I _{NO} , I _{NC} = 10 mA	Room Full	-	13 15	22 24	
R _{DS(on)} flatness ^d	R _{DS(on)} flatness	V+ = 3 V, V _{COM} = 0 V to V+, I _{NO} , I _{NC} = 10 mA	Room	_	1.4	-	Ω
R _{DS(on)} match ^d	$\Delta R_{DS(on)}$	V+ = 2.7 V, V _{COM} = 1.5 V, I _{NO} , I _{NC} = 10 mA	Room	-	0.03	0.35	
	I _{NO(off)} ,		Room	-0.4	-	0.4	
O the base of the state of the	I _{NC(off)}	V+ = 3.3 V.	Full	-4	-	4	nA
Switch-off leakage current f		$V_{NO}, V_{NC} = 1 V / 3 V, V_{COM} = 3 V / 1 V$	Room	-0.8	-	0.8	
	I _{COM(off)}		Full	-8	-	8	
Channel on lookage ourrent f	I _{COM(on)}	V+ = 3.3 V, V _{NO} , V _{NC} = V _{COM} = 1 V / 3 V	Room	-0.8	-	0.8	~^
Channel-on leakage current f			Full	-8	-	8	nA
Digital Control							
Input high voltage	V _{INH}		Full	2	-	-	V
Input low voltage	V _{INL}		Full	-	-	0.4	v
Input capacitance ^d	CIN		Full	-	6	-	pF
Input current	$I_{\rm INL}$ or $I_{\rm INH}$	$V_{IN} = 0 V \text{ or } V+$	Full	-1	-	1	μA
Dynamic Characteristics							
Turn-on time ^d	+		Room	-	13	34	
rum-on time -	t _{ON}		Full	-	-	37	
Turn-off time ^d	+	$V_{\text{NO}} \text{ or } V_{\text{NC}}$ = 2 V, R_{L} = 300 $\Omega, \text{C}_{\text{L}}$ = 35 pF	Room	-	9	20	ns
	t _{OFF}		Full	-	-	22	
Break-before-make time ^d	t _{BBM}		Room	1	-	-	1
Charge injection ^d	Q _{INJ}	$C_L = 1 \text{ nF}, \text{V}_{\text{GEN}} = 0 \text{V}, \text{V}_{\text{NO}}, \text{V}_{\text{NC}} = 0 \text{V}, \text{R}_{\text{GEN}} = 0 \Omega$	Room	-	0.9	-	рС
Off-isolation ^d	OIRR	$R_L = 50 \Omega, C_L = 5 pF, f = 1 MHz$	Room	-	-78	-	dB
Crosstalk ^d	X _{TALK}	$H_{L} = 00.52, O_{L} = 0.001, T = 1.0012$	Room	-	-77	-	
NO, NC off capacitance d	C _{NO(off)}		Room	-	7	-	
· ·	C _{NC(off)}	$V_{IN} = 0 V \text{ or } V+, f = 1 MHz$	Room	-	7	-	pF
Channel-on capacitance ^d	C _{ON}]	Room	-	14	-	
Power Supply							
Power supply current ^d	l+	$V_{IN} = 0 V \text{ or } V+$	Full	-	0.002	1	μA



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SPECIFICATIONS (V+	= 2.5 V)						
PARAMETER	SYMBOL	TEST CONDITIONS UNLESS OTHERWISE SPECIFIED $V+ = 2.5 V, \pm 10 \%$ $V_{IN} = 0.4 V \text{ or } 2 V ^{e}$	TEMP. ^a	LIMITS -40 °C to +85 °C			UNIT
				MIN. ^b	۲YP. ۵	MAX. ^b	•
Analog Switch	-						
Analog signal range ^d	V _{NO} , V _{NC} V _{COM}		Full	0	-	V+	V
Drain-source on-resistance d	R _{DS(on)}	V+ = 2.2 V, V _{COM} = 1 V, I _{NO} , I _{NC} = 10 mA	Room Full ^d	-	23 24	27 28	
R _{DS(on)} flatness ^d	R _{DS(on)} flatness	V+ = 2.5 V, V _{COM} = 0 V to V+, I _{NO} , I _{NC} = 10 mA	Room	-	1.7	-	Ω
R _{DS(on)} match ^d	$\Delta R_{DS(on)}$	V+ = 2.2 V, V _{COM} = 1.2 V, I _{NO} , I _{NC} = 10 mA	Room	-	0.1	0.5	
20(01)	I _{NO(off)} ,		Room	-0.2	-	0.2	
	I _{NC(off)}	V+ = 2.7 V.	Full ^d	-3	-	3	nA
Switch-off leakage current ^f		$V_{NO}, V_{NC} = 0.5 \text{ V} / 1.5 \text{ V}, V_{COM} = 1.5 \text{ V} / 0.5 \text{ V}$	Room	-0.2	-	0.2	
	ICOM(off)		Full ^d	-3	-	3	
Observations had a second f		V+ = 2.7 V, V _{NO} , V _{NC} = V _{COM} = 0.5 V / 1.5 V	Room	-0.2	-	0.2	nA
Channel-on leakage current f	I _{COM(on)}		Full ^d	-3	-	3	
Digital Control	•	•					
Input high voltage	V _{INH}		Full	2	-	-	V
Input low voltage	V _{INL}		Full	-	-	0.4	v
Input capacitance d	C _{IN}		Full	-	6	-	pF
Input current	$I_{\rm INL}$ or $I_{\rm INH}$	$V_{IN} = 0 V \text{ or } V+$	Full	-1	-	1	μA
Dynamic Characteristics							
Turn-on time ^d	t _{ON}		Room	I	16	36	
rum-on time	LON		Full ^d	-	-	38	
Turn-off time ^d	t _{OFF}	$V_{NO}~\text{or}~V_{NC}$ = 1.5 V, R_L = 300 $\Omega,~C_L$ = 35 pF	Room	-	10	19	ns
	UFF		Full	-	-	21	
Break-before-make time ^d	t _{BBM}		Room ^d	1	-	-	
Charge injection ^d	Q _{INJ}	$C_L = 1 \text{ nF}, \text{V}_{\text{GEN}} = 0 \text{V}, \text{V}_{\text{NO}}, \text{V}_{\text{NC}} = 0 \text{V}, \text{R}_{\text{GEN}} = 0 \Omega$	Room	-	0.9	-	рС
Off-isolation ^d	OIRR	$R_1 = 50 \Omega, C_1 = 5 pF, f = 1 MHz$	Room	-	-78	-	dB
Crosstalk ^d	X _{TALK}		Room	-	-77	-	uВ
NO, NC off capacitance d	C _{NO(off)}		Room	-	7	-	
	C _{NC(off)}	$V_{IN} = 0 V \text{ or } V+, f = 1 MHz$	Room	-	7	-	pF
Channel-on capacitance d	C _{ON}		Room	-	14	-	
Power Supply							
Power supply current d	l+	$V_{IN} = 0 V \text{ or } V+$	Full	-	-	1	μA

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SPECIFICATIONS (V+ = 2 V)								
PARAMETER	SYMBOL	TEST CONDITIONS UNLESS OTHERWISE SPECIFIED	TEMP. ^a	LIMITS -40 °C to +85 °C			UNIT	
		V+ = 2 V, ± 10 % V _{IN} = 0.4 V or 1.6 V ^e		MIN. ^b	۲YP. ۵	MAX. ^b	U.I.I	
Analog Switch								
Analog signal range ^d	V _{NO} , V _{NC} V _{COM}		Full	0	-	V+	V	
Drain-source on-resistance d	R _{DS(on)}	V+ = 1.8 V, V_{COM} = 1 V, I_{NO} , I_{NC} = 10 mA	Room Full ^d	-	37 36	42 44		
R _{DS(on)} flatness ^d	R _{DS(on)} flatness	V+ = 2 V, V _{COM} = 0 V to V+, I _{NO} , I _{NC} = 10 mA	Room	-	3	-	Ω	
R _{DS(on)} match ^d	$\Delta R_{DS(on)}$	$V_{+} = 1.8 V, V_{COM} = 1 V, I_{NO}, I_{NC} = 10 mA$	Room	-	0.04	0.5		
	I _{NO(off)} ,		Room	-0.2	-	0.2		
Switch-off leakage current ^f	I _{NC(off)}	V+ = 2.2 V,	Full ^d	-3	-	3	n A	
Switch-on leakage current	1	$V_{NO}, V_{NC} = 0.5 \text{ V} / 1.5 \text{ V}, V_{COM} = 1.5 \text{ V} / 0.5 \text{ V}$	Room	-0.2	-	0.2	nA	
	I _{COM(off)}		Full ^d	-3	-	3		
Channel on lookage ourrent f		V+ = 2.2 V, V _{NO} , V _{NC} = V _{COM} = 0.5 V / 1.5 V	Room	-0.2	-	0.2		
Channel-on leakage current f	I _{COM(on)}		Full ^d	-3	-	3	nA	
Digital Control		•	•	•	•	•		
Input high voltage	V _{INH}		Full	1.6	-	-	v	
Input low voltage	V _{INL}		Full	-	-	0.4	v	
Input capacitance d	CIN		Full	-	6	-	pF	
Input current	$I_{\rm INL}$ or $I_{\rm INH}$	V _{IN} = 0 V or V+	Full	-1	-	1	μA	
Dynamic Characteristics								
Turn-on time ^d	+		Room	-	21	40		
	t _{ON}		Full ^d	-	-	42		
Turn-off time ^d	to	$V_{NO}~\text{or}~V_{NC}$ = 1.5 V, R_L = 300 $\Omega,~C_L$ = 35 pF	Room	-	13	20	ns	
rum-on time	t _{OFF}		Full ^d	-	-	21		
Break-before-make time ^d	t _{BBM}		Room	1	-	-	1	
Charge injection ^d	Q _{INJ}	$C_L = 1 \text{ nF}, \text{V}_{\text{GEN}} = 0 \text{V}, \text{V}_{\text{NO}}, \text{V}_{\text{NC}} = 0 \text{V}, \text{R}_{\text{GEN}} = 0 \Omega$	Room	-	0.8	-	рС	
Off-isolation ^d	OIRR		Room	-	-78	-	dD	
Crosstalk ^d	X _{TALK}	$R_{L} = 50 \Omega, C_{L} = 5 pF, f = 1 MHz$	Room	-	-77	-	dB	
NO NO effective d	C _{NO(off)}	V _{IN} = 0 V or V+, f = 1 MHz	Room	-	7	-		
NO, NC off capacitance ^d	C _{NC(off)}		Room	-	7	-	pF	
Channel-on capacitance ^d	C _{ON}		Room	-	14	-		
Power Supply								
Power supply current ^d	l+	$V_{IN} = 0 V \text{ or } V+$	Full	-	-	1	μA	

Notes

a. Room = 25 °C, full = as determined by the operating suffix

b. The algebraic convention whereby the most negative value is a minimum and the most positive a maximum, is used in this datasheet

c. Typical values are for design aid only, not guaranteed nor subject to production testing

d. Guarantee by design, nor subjected to production test

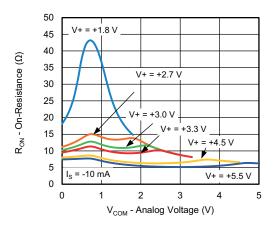
e. V_{IN} = input voltage to perform proper function

f. Guaranteed by 5 V leakage testing, not production tested

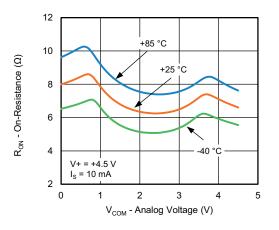
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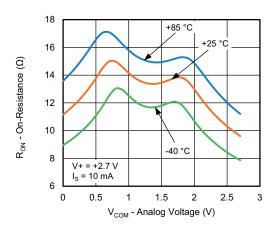
TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)



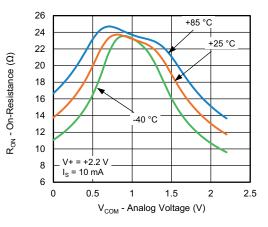
R_{DS(on)} vs. V_{COM} and Supply Voltage



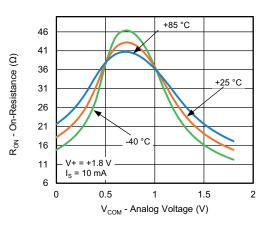
R_{DS(on)} vs. Analog Voltage and Temperature



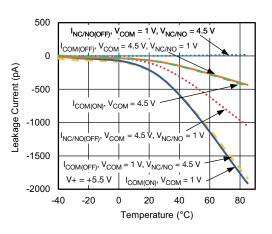
R_{DS(on)} vs. Analog Voltage and Temperature



R_{DS(on)} vs. Analog Voltage and Temperature



R_{DS(on)} vs. Analog Voltage and Temperature



Leakage Current vs. Temperature

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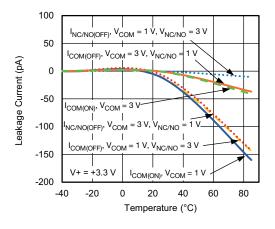
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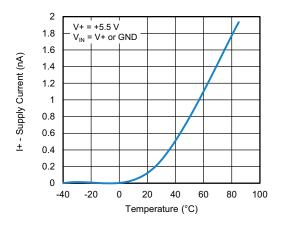
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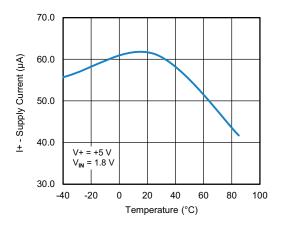
TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)



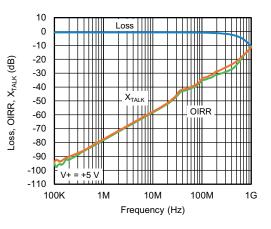
Leakage Current vs. Temperature



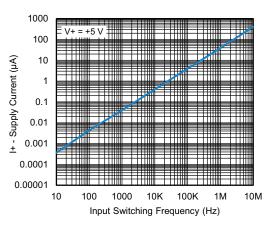
Supply Current vs. Temperature



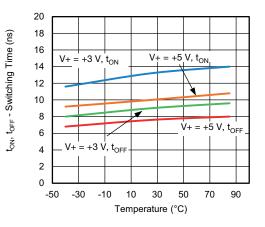
Supply Current vs. Temperature



Insertion Loss, Off-Isolation Crosstalk vs. Frequency



Supply Current vs. Input Switching Frequency



Switching Time vs. Temperature

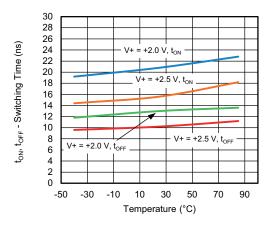
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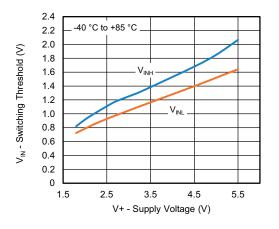
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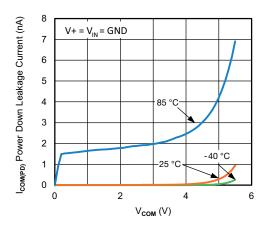
TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)



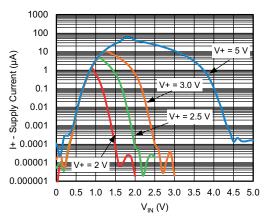
Switching Time vs. Temperature



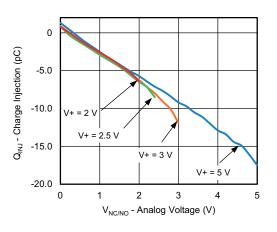
Switching Threshold vs. Supply Voltage



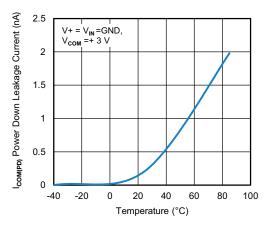
Power Down Leakage Current vs V_{COM}



Supply Current vs. Enable Input Voltage



Charge Injection vs. Analog Voltage



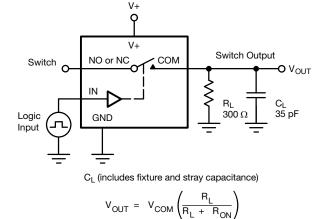
Power Down Leakage Current vs Temperature

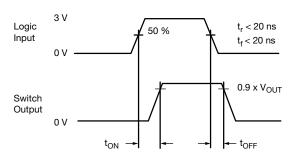
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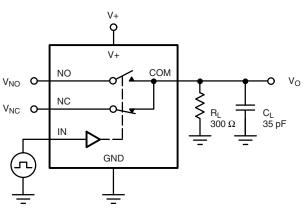
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TEST CIRCUITS





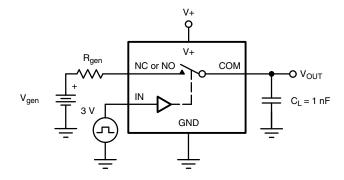
Logic "1" = switch on Logic input waveforms inverted for switches that have the opposite logic sense.

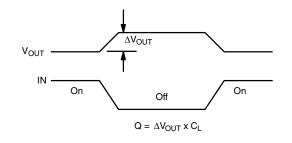


 $V_{NC} = V_{NO}$ V_{O} V_{O} y_{O} $y_$

 C_{L} (includes fixture and stray capacitance)

Fig. 2 - Break-Before-Make Interval





IN depends on switch configuration: input polarity determined by sense of switch.

Fig. 3 - Charge Injection

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Fig. 1 - Switching Time

Logic

Input

3 V

0 V

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t_r < 5 ns

t_f < 5 ns







TEST CIRCUITS

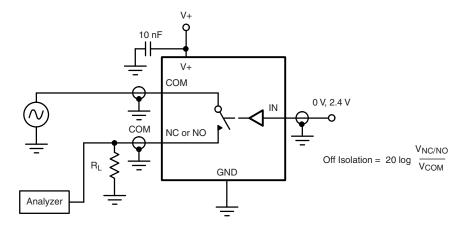


Fig. 4 - Off-Isolation

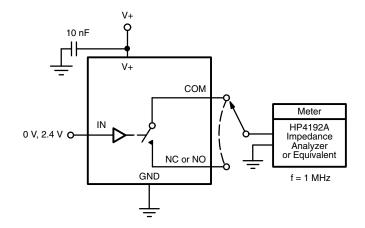


Fig. 5 - Channel Off / On Capacitance

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