

FEATURES

- 1 Ω on resistance
- 0.2 Ω on resistance flatness
- Up to 430 mA continuous current
- Fully specified at $+12$ V, ± 15 V, ± 5 V
- No V_L supply required
- 3 V logic-compatible inputs
- Rail-to-rail operation
- 8-lead MSOP and 8-lead, 3 mm $\times$ 2 mm LFCSP packages

APPLICATIONS

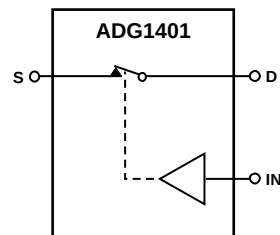
- Automatic test equipment
- Data acquisition systems
- Battery-powered systems
- Sample-and-hold systems
- Audio signal routing
- Video signal routing
- Communication systems
- Relay replacements

GENERAL DESCRIPTION

The ADG1401/ADG1402 contain a single-pole/single-throw (SPST) switch. Figure 1 shows that with a logic input of 1, the switch of the ADG1401 is closed and that of the ADG1402 is open. Each switch conducts equally well in both directions when on and has an input signal range that extends to the supplies. In the off condition, signal levels up to the supplies are blocked.

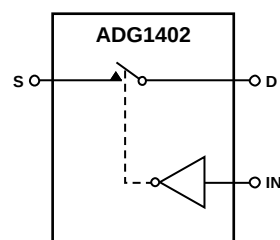
The iCMOS® (industrial CMOS) modular manufacturing process combines high voltage, complementary metal-oxide semiconductor (CMOS) and bipolar technologies. It enables the development of a wide range of high performance analog ICs capable of 33 V operation in a footprint that no other generation of high voltage parts has achieved. Unlike analog ICs using conventional CMOS processes, iCMOS components can tolerate high supply voltages while providing increased performance, dramatically lower power consumption, and a reduced package size.

FUNCTIONAL BLOCK DIAGRAM



SWITCHES SHOWN FOR A LOGIC 1 INPUT

Figure 1. ADG1401 Functional Block Diagram



SWITCHES SHOWN FOR A LOGIC 1 INPUT

Figure 2. ADG1402 Functional Block Diagram

The on resistance profile is very flat over the full analog input range ensuring excellent linearity and low distortion when switching audio signals. The iCMOS construction ensures ultralow power dissipation, making the part ideally suited for portable and battery-powered instruments.

PRODUCT HIGHLIGHTS

1. 1.3 Ω maximum on resistance at 25°C.
2. Minimum distortion.
3. 3 V logic-compatible digital inputs: $V_{INH} = 2.0$ V, $V_{INL} = 0.8$ V.
4. No V_L logic power supply required.
5. 8-lead MSOP and 8-lead, 3 mm $\times$ 2 mm LFCSP packages.

Rev. 0

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TABLE OF CONTENTS

Features	1	Continuous Current Per Channel, S or D	6
Applications	1	Absolute Maximum Ratings	7
Functional Block Diagram	1	Thermal Resistance	7
General Description	1	ESD Caution.....	7
Product Highlights	1	Pin Configuration and Function Descriptions.....	8
Revision History	2	Typical Performance Characteristics	9
Specifications.....	3	Test Circuits.....	12
±15 V Dual Supply	3	Terminology	14
+12 V Single Supply	4	Outline Dimensions	15
±5 V Dual Supply	5	Ordering Guide	15

REVISION HISTORY

10/09—Revision 0: Initial Version

SPECIFICATIONS

±15 V DUAL SUPPLY

$V_{DD} = +15\text{ V} \pm 10\%$, $V_{SS} = -15\text{ V} \pm 10\%$, GND = 0 V, unless otherwise noted.

Table 1.

Parameter	25°C	−40°C to +85°C	−40°C to +125°C	Unit	Test Conditions/Comments
ANALOG SWITCH					
Analog Signal Range			V_{DD} to V_{SS}	V	
On Resistance, R_{ON}	1			Ω typ	$V_S = \pm 10\text{ V}$, $I_S = -10\text{ mA}$; see Figure 20
	1.3	1.6	1.8	Ω max	$V_{DD} = +13.5\text{ V}$, $V_{SS} = -13.5\text{ V}$
On Resistance Flatness, $R_{FLAT(ON)}$	0.2			Ω typ	$V_S = \pm 10\text{ V}$; $I_S = -10\text{ mA}$
	0.23	0.26	0.3	Ω max	
LEAKAGE CURRENTS					
Source Off Leakage, I_S (Off)	± 0.05			nA typ	$V_{DD} = +16.5\text{ V}$, $V_{SS} = -16.5\text{ V}$
	± 0.4	± 3	± 150	nA max	$V_S = \pm 10\text{ V}$, $V_D = \pm 10\text{ V}$; see Figure 21
Drain Off Leakage, I_D (Off)	± 0.05			nA typ	$V_S = \pm 10\text{ V}$, $V_D = \pm 10\text{ V}$; see Figure 21
	± 0.4	± 3	± 150	nA max	
Channel On Leakage, I_D , I_S (On)	± 0.2			nA typ	$V_S = V_D = \pm 10\text{ V}$; see Figure 22
	± 1	± 3	± 150	nA max	
DIGITAL INPUTS					
Input High Voltage, V_{INH}			2.0	V min	
Input Low Voltage, V_{INL}			0.8	V max	
Input Current, I_{INL} or I_{INH}	0.002			μA typ	$V_{IN} = V_{GND}$ or V_{DD}
			± 0.1	μA max	
Digital Input Capacitance, C_{IN}	4			pF typ	
DYNAMIC CHARACTERISTICS¹					
t_{ON}	120			ns typ	$R_L = 300\ \Omega$, $C_L = 35\text{ pF}$
	150	185	215	ns max	$V_S = 10\text{ V}$; see Figure 23
t_{OFF}	120			ns typ	$R_L = 300\ \Omega$, $C_L = 35\text{ pF}$
	150	175	200	ns max	$V_S = 10\text{ V}$; see Figure 23
Charge Injection	−12			pC typ	$V_S = 0\text{ V}$, $R_S = 0\ \Omega$, $C_L = 1\text{ nF}$; see Figure 24
Off Isolation	−58			dB typ	$R_L = 50\ \Omega$, $C_L = 5\text{ pF}$, $f = 1\text{ MHz}$; see Figure 25
Total Harmonic Distortion + Noise	0.008			% typ	$R_L = 10\text{ k}\Omega$, 5 V rms, $f = 20\text{ Hz}$ to 20 kHz; see Figure 27
−3 dB Bandwidth	120			MHz typ	$R_L = 50\ \Omega$, $C_L = 5\text{ pF}$; see Figure 26
Insertion Loss	0.08			dB typ	$R_L = 50\ \Omega$, $C_L = 5\text{ pF}$, $f = 1\text{ MHz}$; see Figure 26
C_S (Off)	36			pF typ	$f = 1\text{ MHz}$, $V_S = 0\text{ V}$
C_D (Off)	41			pF typ	$f = 1\text{ MHz}$, $V_S = 0\text{ V}$
C_D , C_S (On)	187			pF typ	$f = 1\text{ MHz}$, $V_S = 0\text{ V}$
POWER REQUIREMENTS					
I_{DD}	0.002			μA typ	$V_{DD} = +16.5\text{ V}$, $V_{SS} = -16.5\text{ V}$
			1.0	μA max	Digital inputs = 0 V or V_{DD}
I_{DD}	60			μA typ	Digital inputs = 5 V
			95	μA max	
I_{SS}	0.002			μA typ	Digital inputs = 0 V, 5 V, or V_{DD}
			1.0	μA max	
V_{DD}/V_{SS}			$\pm 4.5/\pm 16.5$	V min/max	Ground = 0 V

¹ Guaranteed by design, not subject to production test.

ADG1401/ADG1402

+12 V SINGLE SUPPLY

$V_{DD} = +12\text{ V} \pm 10\%$, $V_{SS} = 0\text{ V}$, $GND = 0\text{ V}$, unless otherwise noted.

Table 2.

Parameter	25°C	–40°C to +85°C	–40°C to +125°C	Unit	Test Conditions/Comments
ANALOG SWITCH					
Analog Signal Range			0 V to V _{DD}	V	V _S = 0 V to 10 V, I _S = –10 mA; see Figure 20 V _{DD} = 10.8 V, V _{SS} = 0 V V _S = 0 V to 10 V, I _S = –10 mA
On Resistance, R _{ON}	2			Ω typ	
	2.4	2.9	3.2	Ω max	
On Resistance Flatness, R _{FLAT (ON)}	0.6			Ω typ	
	0.68	0.8	0.85	Ω max	
LEAKAGE CURRENTS					
Source Off Leakage, I _S (Off)	±0.05			nA typ	V _{DD} = 13.2 V, V _{SS} = 0 V V _S = 1 V/10 V, V _D = 10 V/1 V; see Figure 21
	±0.4	±3	±150	nA max	
Drain Off Leakage, I _D (Off)	±0.05			nA typ	V _S = 1 V/10 V, V _D = 10 V/1 V; see Figure 21
	±0.4	±3	±150	nA max	
Channel On Leakage, I _D , I _S (On)	±0.2			nA typ	V _S = V _D = 1 V or 10 V; see Figure 22
	±1	±3	±150	nA max	
DIGITAL INPUTS					
Input High Voltage, V _{INH}			2.0	V min	V _{IN} = V _{GND} or V _{DD}
Input Low Voltage, V _{INL}			0.8	V max	
Input Current, I _{INL} or I _{INH}	0.002			μA typ	
			±0.1	μA max	
Digital Input Capacitance, C _{IN}	4			pF typ	
DYNAMIC CHARACTERISTICS ¹					
t _{ON}	180			ns typ	R _L = 300 Ω, C _L = 35 pF V _S = 8 V; see Figure 23
	235	295	335	ns max	
t _{OFF}	140			ns typ	R _L = 300 Ω, C _L = 35 pF V _S = 8 V; see Figure 23
	185	215	260	ns max	
Charge Injection	57			pC typ	V _S = 6 V, R _S = 0 Ω, C _L = 1 nF; see Figure 24
Off Isolation	–58			dB typ	R _L = 50 Ω, C _L = 5 pF, f = 1 MHz; see Figure 25
–3 dB Bandwidth	82			MHz typ	R _L = 50 Ω, C _L = 5 pF; see Figure 26
Insertion Loss	0.15			dB typ	R _L = 50 Ω, C _L = 5 pF, f = 1 MHz; see Figure 26
C _S (Off)	61			pF typ	f = 1 MHz, V _S = 6 V
C _D (Off)	68			pF typ	f = 1 MHz, V _S = 6 V
C _D , C _S (On)	181			pF typ	f = 1 MHz, V _S = 6 V
POWER REQUIREMENTS					
I _{DD}	0.001			μA typ	V _{DD} = 13.2 V Digital inputs = 0 V or V _{DD}
			1.0	μA max	
I _{DD}	60			μA typ	Digital inputs = 5 V
			95	μA max	
V _{DD}			5/16.5	V min/max	Ground = 0 V, V _{SS} = 0 V

¹ Guaranteed by design, not subject to production test.

±5 V DUAL SUPPLY

$V_{DD} = +5\text{ V} \pm 10\%$, $V_{SS} = -5\text{ V} \pm 10\%$, GND = 0 V, unless otherwise noted.

Table 3.

Parameter	25°C	–40°C to +85°C	–40°C to +125°C	Unit	Test Conditions/Comments
ANALOG SWITCH					
Analog Signal Range			0 V to V_{DD}	V	
On Resistance, R_{ON}	2.3			Ω typ	$V_S = \pm 4.5\text{ V}$, $I_S = -10\text{ mA}$; see Figure 20
	2.7	3.3	3.7	Ω max	$V_{DD} = +4.5\text{ V}$, $V_{SS} = -4.5\text{ V}$
On Resistance Flatness, $R_{FLAT(ON)}$	0.65			Ω typ	$V_S = \pm 4.5\text{ V}$, $I_S = -10\text{ mA}$
	0.72	0.85	0.9	Ω max	
LEAKAGE CURRENTS					
Source Off Leakage, I_S (Off)	± 0.02			nA typ	$V_{DD} = +5.5\text{ V}$, $V_{SS} = -5.5\text{ V}$
	± 0.4	± 3	± 150	nA max	$V_S = \pm 4.5\text{ V}$, $V_D = \mp 4.5\text{ V}$; see Figure 21
Drain Off Leakage, I_D (Off)	± 0.02			nA typ	
	± 0.4	± 3	± 150	nA max	$V_S = \pm 4.5\text{ V}$, $V_D = \mp 4.5\text{ V}$; see Figure 21
Channel On Leakage, I_D , I_S (On)	± 0.1			nA typ	$V_S = V_D = \pm 4.5\text{ V}$; see Figure 22
	± 1	± 3	± 150	nA max	
DIGITAL INPUTS					
Input High Voltage, V_{INH}			2.0	V min	
Input Low Voltage, V_{INL}			0.8	V max	
Input Current, I_{INL} or I_{INH}	0.002			μA typ	$V_{IN} = V_{GND}$ or V_{DD}
			± 0.1	μA max	
Digital Input Capacitance, C_{IN}	4			pF typ	
DYNAMIC CHARACTERISTICS¹					
t_{ON}	290			ns typ	$R_L = 300\ \Omega$, $C_L = 35\text{ pF}$
	375	460	520	ns max	$V_S = 3\text{ V}$; see Figure 23
t_{OFF}	235			ns typ	$R_L = 300\ \Omega$, $C_L = 35\text{ pF}$
	305	365	405	ns max	$V_S = 3\text{ V}$; see Figure 23
Charge Injection	145			pC typ	$V_S = 0\text{ V}$, $R_S = 0\ \Omega$, $C_L = 1\text{ nF}$; see Figure 24
Off Isolation	–58			dB typ	$R_L = 50\ \Omega$, $C_L = 5\text{ pF}$, $f = 1\text{ MHz}$; see Figure 25
Total Harmonic Distortion + Noise	0.02			% typ	$R_L = 10\text{ k}\Omega$, 5 V p-p, $f = 20\text{ Hz}$ to 20 kHz ; see Figure 27
–3 dB Bandwidth	79			MHz typ	$R_L = 50\ \Omega$, $C_L = 5\text{ pF}$; see Figure 26
Insertion Loss	0.14			dB typ	$R_L = 50\ \Omega$, $C_L = 5\text{ pF}$, $f = 1\text{ MHz}$; see Figure 26
C_S (Off)	52			pF typ	$V_S = 0\text{ V}$, $f = 1\text{ MHz}$
C_D (Off)	58			pF typ	$V_S = 0\text{ V}$, $f = 1\text{ MHz}$
C_D , C_S (On)	198			pF typ	$V_S = 0\text{ V}$, $f = 1\text{ MHz}$
POWER REQUIREMENTS					
I_{DD}	0.001			μA typ	$V_{DD} = +5.5\text{ V}$, $V_{SS} = -5.5\text{ V}$
			1.0	μA max	Digital inputs = 0 V or V_{DD}
I_{SS}	0.001			μA typ	Digital inputs = 0 V or V_{DD}
			1.0	μA max	
V_{DD}/V_{SS}			$\pm 4.5/\pm 16.5$	V min/max	Ground = 0 V

¹ Guaranteed by design, not subject to production test.

ADG1401/ADG1402

CONTINUOUS CURRENT PER CHANNEL, S OR D

Table 4.

Parameter	25°C	85°C	125°C	Unit	Test Conditions/Comments
CONTINUOUS CURRENT, S or D ¹					
±15 V Dual Supply					$V_{DD} = +13.5\text{ V}, V_{SS} = -13.5\text{ V}$
8-Lead MSOP ($\theta_{JA} = 206^\circ\text{C/W}$)	275	190	125	mA maximum	
8-Lead LFCSP ($\theta_{JA} = 50.8^\circ\text{C/W}$)	430	275	160	mA maximum	
+12 V Single Supply					$V_{DD} = 10.8\text{ V}, V_{SS} = 0\text{ V}$
8-Lead MSOP ($\theta_{JA} = 206^\circ\text{C/W}$)	255	180	120	mA maximum	
8-Lead LFCSP ($\theta_{JA} = 50.8^\circ\text{C/W}$)	355	235	145	mA maximum	
±5 V Dual Supply					$V_{DD} = +4.5\text{ V}, V_{SS} = -4.5\text{ V}$
8-Lead MSOP ($\theta_{JA} = 206^\circ\text{C/W}$)	250	175	120	mA maximum	
8-Lead LFCSP ($\theta_{JA} = 50.8^\circ\text{C/W}$)	340	225	140	mA maximum	

¹ Guaranteed by design, not subject to production test.

ABSOLUTE MAXIMUM RATINGS

$T_A = 25^\circ\text{C}$, unless otherwise noted.

Table 5.

Parameter	Rating
V_{DD} to V_{SS}	35 V
V_{DD} to GND	–0.3 V to +25 V
V_{SS} to GND	+0.3 V to –25 V
Analog Inputs ¹	$V_{SS} - 0.3\text{ V}$ to $V_{DD} + 0.3\text{ V}$ or 30 mA, whichever occurs first
Digital Inputs ¹	GND – 0.3 V to $V_{DD} + 0.3\text{ V}$ or 30 mA, whichever occurs first
Peak Current, S or D (Pulsed at 1 ms, 10% Duty-Cycle Maximum)	
8-Lead MSOP (4-Layer Board)	500 mA
8-Lead LFCSP	700 mA
Continuous Current per Channel, S or D	Data in Table 4 + 15%
Operating Temperature Range Industrial	–40°C to +125°C
Storage Temperature Range	–65°C to +150°C
Junction Temperature	150°C
Reflow Soldering Peak Temperature, Pb Free	260°C

¹ Over voltages at IN, S, or D are clamped by internal diodes. Current should be limited to the maximum ratings given.

Stresses above those listed under Absolute Maximum Ratings may cause permanent damage to the device. This is a stress rating only; functional operation of the device at these or any other conditions above those indicated in the operational section of this specification is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

THERMAL RESISTANCE

Table 6. Thermal Resistance

Package Type	θ_{JA}	θ_{JC}	Unit
8-Lead MSOP (4-Layer Board)	206	44	°C/W
8-Lead LFCSP	50.8		°C/W

ESD CAUTION

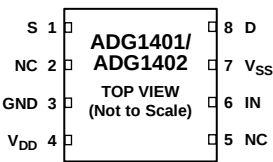


ESD (electrostatic discharge) sensitive device.

Charged devices and circuit boards can discharge without detection. Although this product features patented or proprietary protection circuitry, damage may occur on devices subjected to high energy ESD. Therefore, proper ESD precautions should be taken to avoid performance degradation or loss of functionality.

ADG1401/ADG1402

PIN CONFIGURATION AND FUNCTION DESCRIPTIONS



- NOTES
1. EXPOSED PAD TIED TO SUBSTRATE, V_{SS}.
2. NC = NO CONNECT.

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Figure 3. ADG1401/ADG1402 Pin Configuration

Table 7. ADG1401/ADG1402 Pin Function Descriptions

Pin No.	Mnemonic	Description
1	S	Source Terminal. This pin can be an input or output.
2	NC	No Connect.
3	GND	Ground (0 V) Reference.
4	V _{DD}	Most Positive Power Supply Potential.
5	NC	No Connect.
6	IN	Logic Control Input.
7	V _{SS}	Most Negative Power Supply Potential.
8	D	Drain Terminal. This pin can be an input or output.
	EPAD	Exposed pad tied to substrate, V _{SS} , for LFCSP package.

Table 8. ADG1401/ADG1402 Truth Table

ADG1401 IN	ADG1402 IN	Switch Condition
1	0	On
0	1	Off

TYPICAL PERFORMANCE CHARACTERISTICS

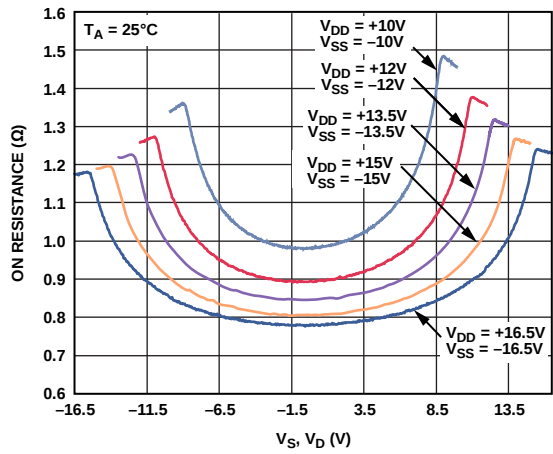


Figure 4. On Resistance as a Function of V_D (V_S) for Dual Supply

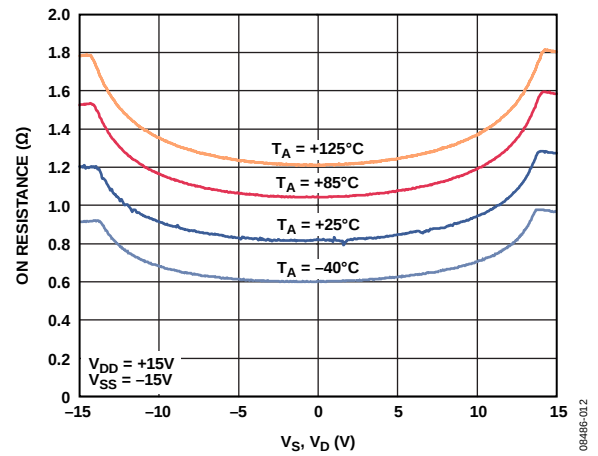


Figure 7. On Resistance as a Function of V_D (V_S) for Different Temperatures, ± 15 V Dual Supply

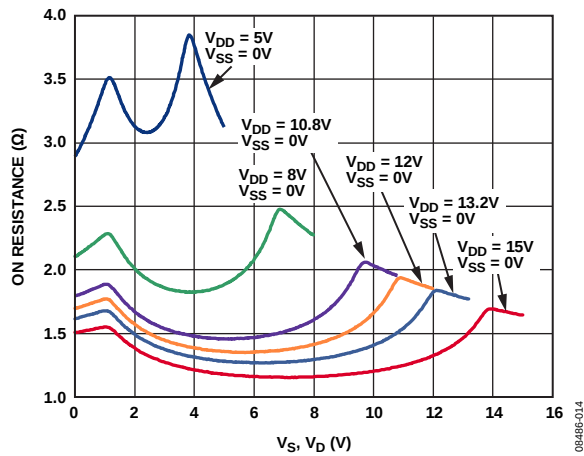


Figure 5. On Resistance as a Function of V_D (V_S) for Single Supply

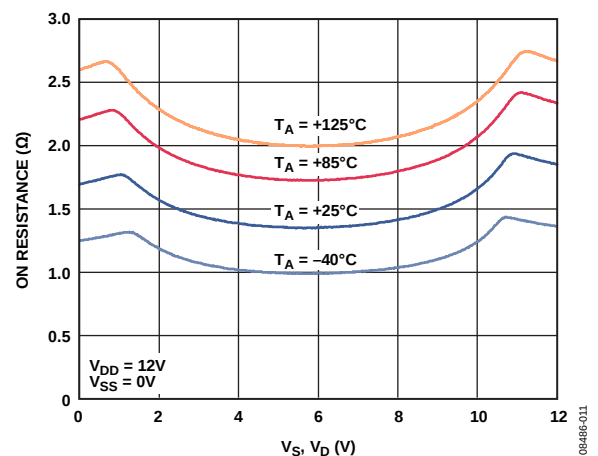


Figure 8. On Resistance as a Function of V_D (V_S) for Different Temperatures, +12 V Single Supply

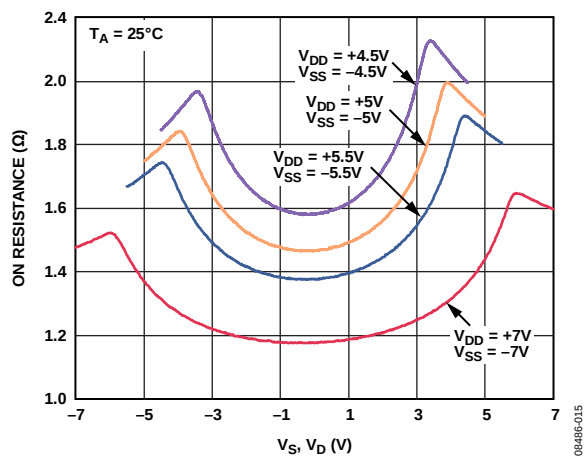


Figure 6. On Resistance as a Function of V_D (V_S) for Dual Supply

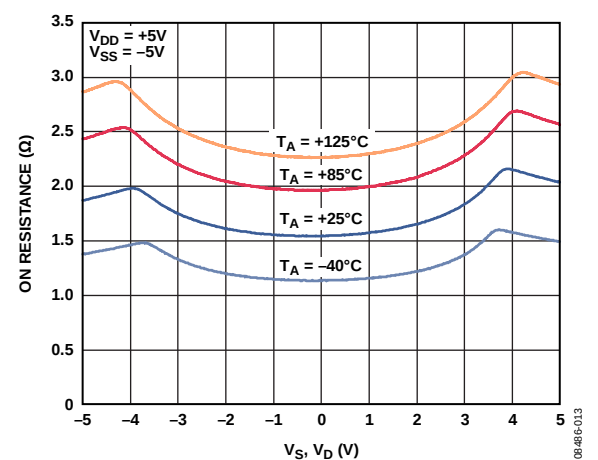


Figure 9. On Resistance as a Function of V_D (V_S) for Different Temperatures, ± 5 V Dual Supply

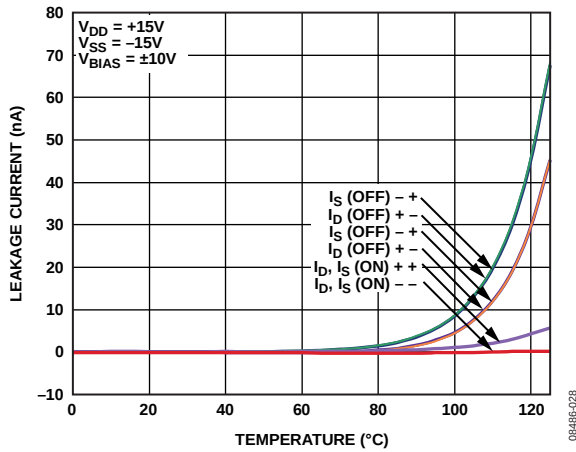


Figure 10. Leakage Currents as a Function of Temperature, ±15 V Dual Supply

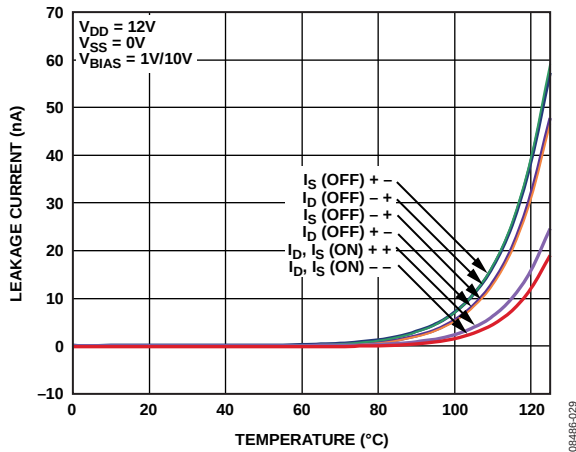


Figure 11. Leakage Currents as a Function of Temperature, +12 V Single Supply

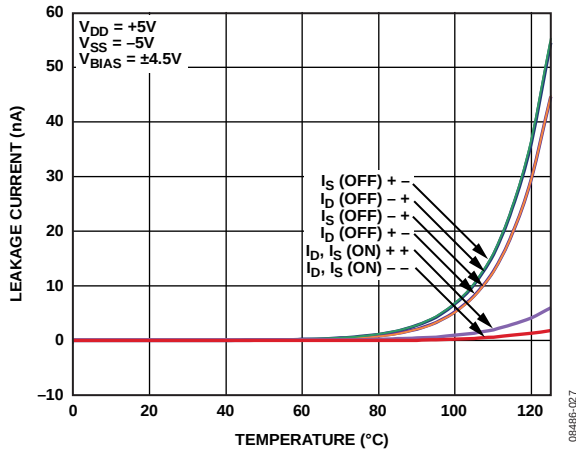


Figure 12. Leakage Currents as a Function of Temperature, ±5 V Dual Supply

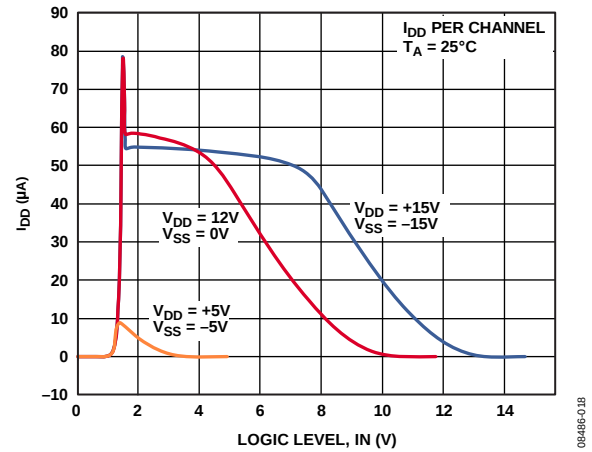


Figure 13. I_{DD} vs. Logic Level

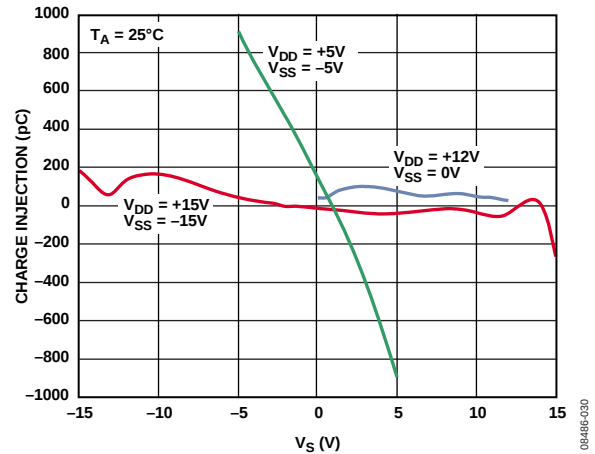


Figure 14. Charge Injection vs. Source Voltage

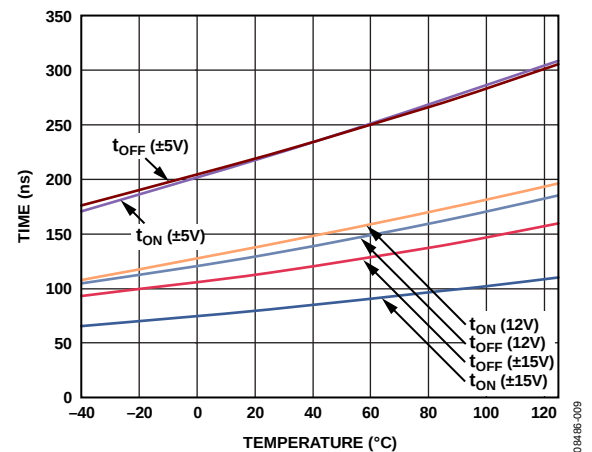


Figure 15. t_{ON}/t_{OFF} Times vs. Temperature

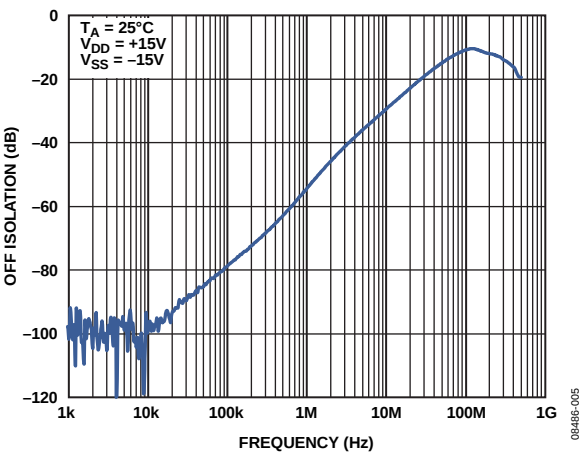


Figure 16. Off Isolation vs. Frequency

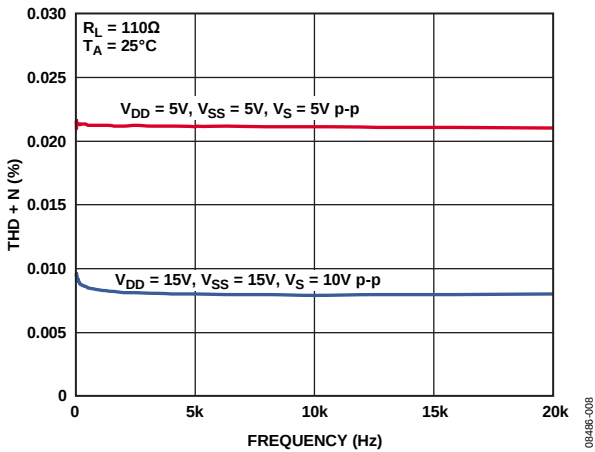


Figure 18. THD + N vs. Frequency

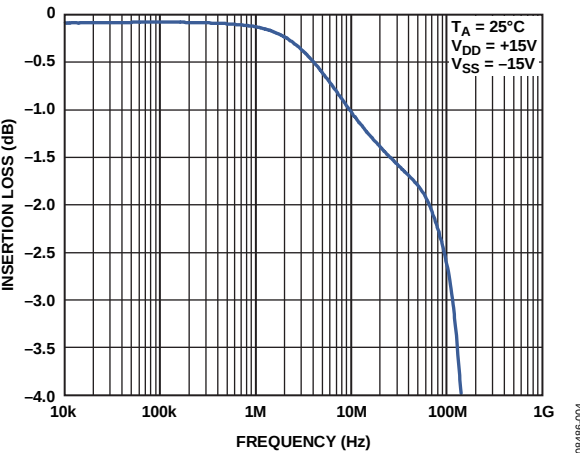


Figure 17. On Response vs. Frequency

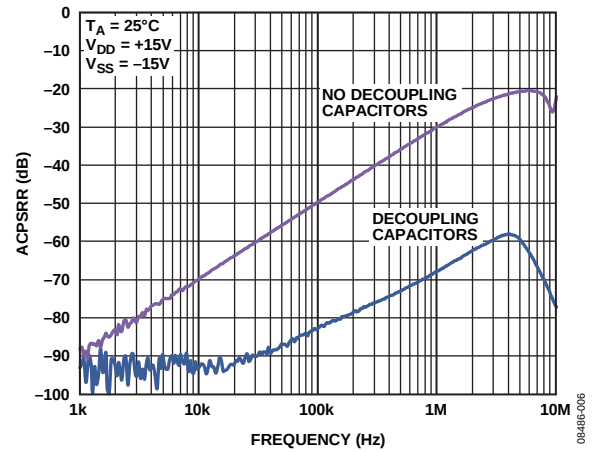


Figure 19. ACPSRR vs. Frequency

TEST CIRCUITS

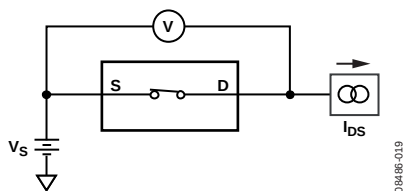


Figure 20. On Resistance

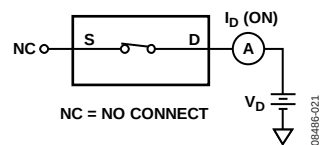


Figure 22. On Leakage

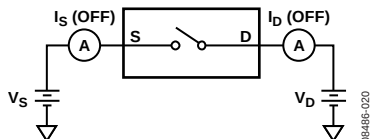


Figure 21. Off Leakage

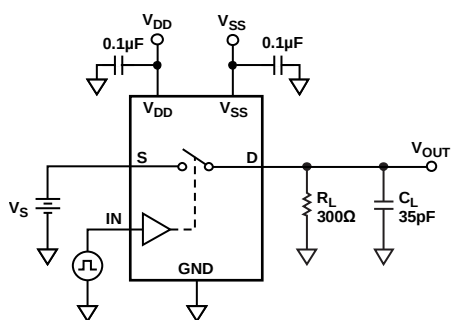


Figure 23. Switching Times, t_{ON} and t_{OFF}

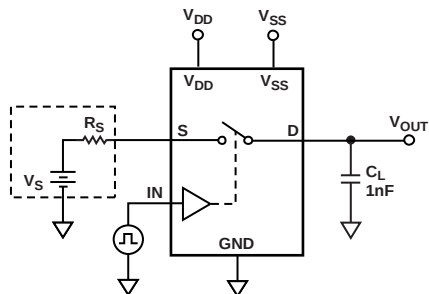
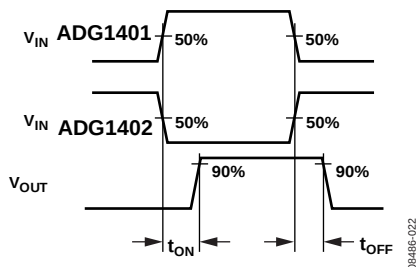
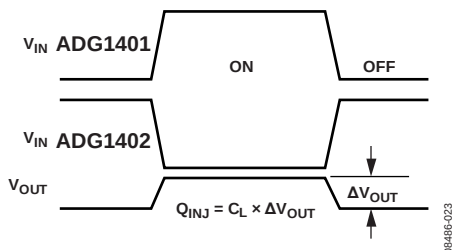


Figure 24. Charge Injection



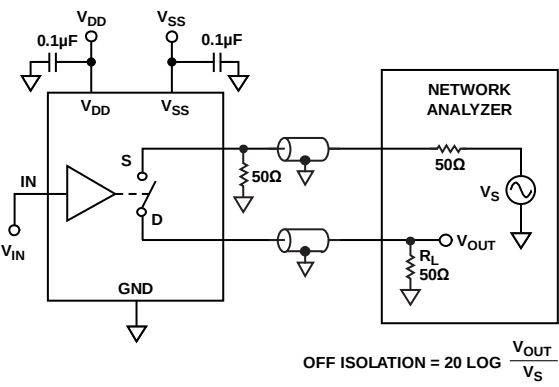


Figure 25. Off Isolation

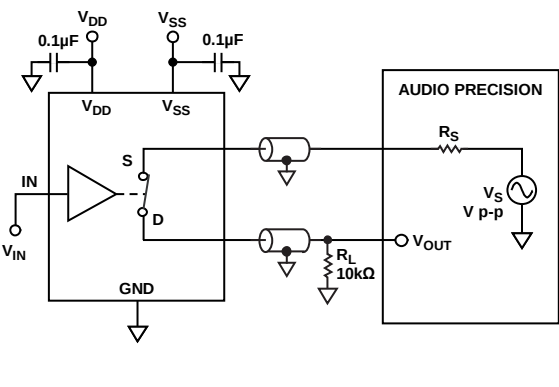


Figure 27. THD + N

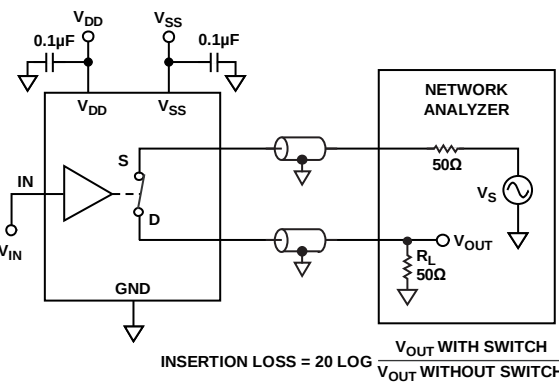


Figure 26. Bandwidth

TERMINOLOGY

I_{DD}

The positive supply current.

I_{SS}

The negative supply current.

V_D (V_S)

The analog voltage on Terminal D and Terminal S.

R_{ON}

The ohmic resistance between Terminal D and Terminal S.

R_{FLAT} (ON)

Flatness is defined as the difference between the maximum and minimum value of on resistance as measured over the specified analog signal range.

I_S (Off)

The source leakage current with the switch off.

I_D (Off)

The drain leakage current with the switch off.

I_D, I_S (On)

The channel leakage current with the switch on.

V_{INL}

The maximum input voltage for Logic 0.

V_{INH}

The minimum input voltage for Logic 1.

I_{INL} (I_{INH})

The input current of the digital input.

C_S (Off)

The off switch source capacitance, measured with reference to ground.

C_D (Off)

The off switch drain capacitance, measured with reference to ground.

C_D, C_S (On)

The on switch capacitance, measured with reference to ground.

C_{IN}

The digital input capacitance.

t_{ON}

Delay time between the 50% and 90% points of the digital input and switch on condition. See Figure 23.

t_{OFF}

Delay time between the 50% and 90% points of the digital input and switch off condition. See Figure 23.

Charge Injection

A measure of the glitch impulse transferred from the digital input to the analog output during switching. See Figure 24.

Off Isolation

A measure of unwanted signal coupling through an off switch. See Figure 25.

Bandwidth

The frequency at which the output is attenuated by 3 dB. See Figure 26.

On Response

The frequency response of the on switch.

Insertion Loss

The loss due to the on resistance of the switch. See Figure 26.

THD + N

The ratio of the harmonic amplitude plus noise of the signal to the fundamental. See Figure 27.

AC Power Supply Rejection Ratio (ACPSRR)

ACPSRR measures the ability of a part to avoid coupling noise and spurious signals that appear on the supply voltage pin to the output of the switch. The dc voltage on the device is modulated by a sine wave of 0.62 V p-p. The ratio of the amplitude of the signal on the output to the amplitude of the modulation is the ACPSRR. See Figure 19.

OUTLINE DIMENSIONS

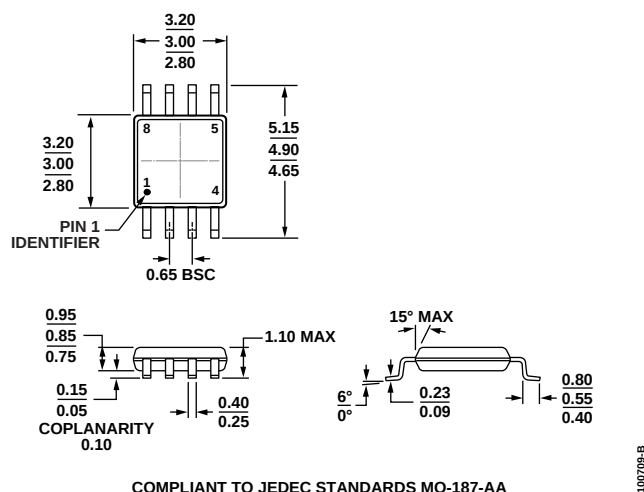


Figure 28. 8-Lead Mini Small Outline Package [MSOP]
(RM-8)

Dimensions shown in millimeters

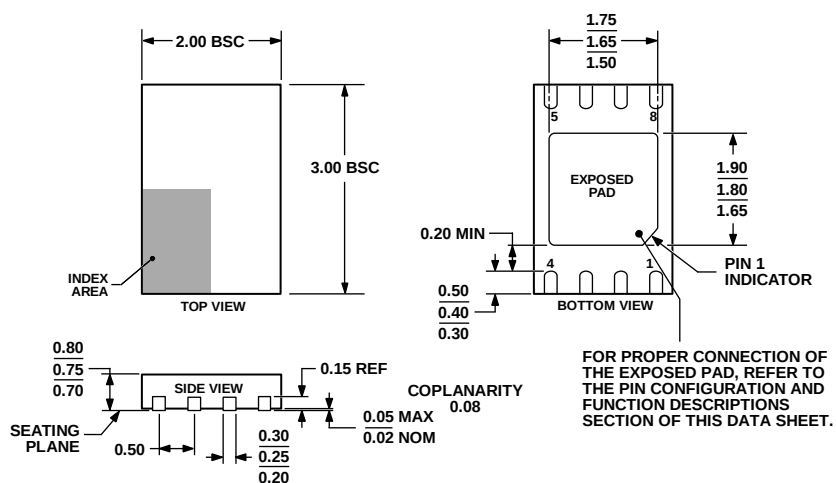


Figure 29. 8-Lead Lead Frame Chip Scale Package [LFCSP_WD]
3 mm × 2 mm Body, Very Very Thin, Dual Lead
(CP-8-4)

Dimensions shown in millimeters

ORDERING GUIDE

Model	Temperature Range	Package Description	Package Option	Branding
ADG1401BRMZ ¹	−40°C to +125°C	8-Lead Mini Small Outline Package [MSOP]	RM-8	S2T
ADG1401BRMZ-REEL7 ¹	−40°C to +125°C	8-Lead Mini Small Outline Package [MSOP]	RM-8	S2T
ADG1401BCPZ-REEL7 ¹	−40°C to +125°C	8-Lead Lead Frame Chip Scale Package [LFCSP_WD]	CP-8-4	2Y
ADG1402BRMZ ¹	−40°C to +125°C	8-Lead Mini Small Outline Package [MSOP]	RM-8	S2U
ADG1402BRMZ-REEL7 ¹	−40°C to +125°C	8-Lead Mini Small Outline Package [MSOP]	RM-8	S2U
ADG1402BCPZ-REEL7 ¹	−40°C to +125°C	8-Lead Lead Frame Chip Scale Package [LFCSP_WD]	CP-8-4	1F

¹ Z = RoHS Compliant Part.

NOTES