

FEATURES

0.5 Ω typical on resistance
0.8 Ω maximum on resistance at 125°C
1.65 V to 3.6 V operation
Automotive temperature range: -40°C to +125°C
High current carrying capability: 300 mA continuous
Rail-to-rail switching operation
Fast-switching times <20 ns
Typical power consumption (<0.1 μ W)

APPLICATIONS

Cellular phones
PDA's
MP3 players
Power routing
Battery-powered systems
PCMCIA cards
Modems
Audio and video signal routing
Communication systems

GENERAL DESCRIPTION

The **ADG836** is a low voltage complementary metal-oxide semiconductor (CMOS) device containing two independently selectable single-pole, double-throw (SPDT) switches. This device offers an ultralow on resistance of less than 0.8 Ω over the full temperature range. The **ADG836** is fully specified for 3.3 V, 2.5 V, and 1.8 V supply operation.

Each switch conducts equally well in both directions when on, and has an input signal range that extends to the supplies. The **ADG836** exhibits break-before-make switching action.

The **ADG836** is available in a 10-lead MSOP and in a 3 mm \times 3 mm 12-lead LFCSP.

FUNCTIONAL BLOCK DIAGRAM

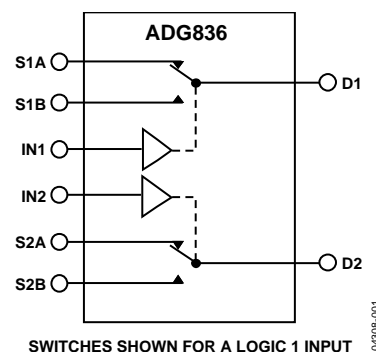


Figure 1.

PRODUCT HIGHLIGHTS

1. <0.8 Ω over full temperature range of -40°C to +125°C.
2. Single 1.65 V to 3.6 V operation.
3. Compatible with 1.8 V CMOS logic.
4. High current handling capability (300 mA continuous current at 3.3 V).
5. Low total harmonic distortion plus noise (THD + N) (0.02% typical).
6. 3 mm \times 3 mm LFCSP and 10-lead MSOP.

ADG836* Product Page Quick Links

Last Content Update: 11/01/2016

Comparable Parts

View a parametric search of comparable parts

Evaluation Kits

- Evaluation Board for 10-Lead MSOP Devices in the Switches and Multiplexers Portfolio

Documentation

Data Sheet

- ADG836: 0.5 Ω CMOS, 1.65 V TO 3.6 V, Dual SPDT/2:1 MUX Data Sheet

User Guides

- UG-1037: Evaluation Board for 10-Lead MSOP Devices in the Switches and Multiplexers Portfolio

Reference Materials

Product Selection Guide

- Switches and Multiplexers Product Selection Guide

Technical Articles

- CMOS Switches Offer High Performance in Low Power, Wideband Applications
- Data-acquisition system uses fault protection
- Enhanced Multiplexing for MEMS Optical Cross Connects
- Temperature monitor measures three thermal zones

Design Resources

- adg836 Material Declaration
- PCN-PDN Information
- Quality And Reliability
- Symbols and Footprints

Discussions

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Technical Support

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REVISION HISTORY

6/2016—Rev. A to Rev. B	
Changed CP-12-1 to CP-12-4	Throughout
Changes to Figure 3 and Table 6.....	7
Added Terminology Section	13
Updated Outline Dimensions	14
Changes to Ordering Guide	14
4/2005—Rev. 0 to Rev. A	
Updated Format.....	Universal
Changes to Table 1.....	3
Changes to Table 2.....	4
Changes to Table 3.....	5
Changes to Ordering Guide	13
8/2003—Revision 0: Initial Version	

SPECIFICATIONS

$V_{DD} = 2.7\text{ V}$ to 3.6 V , $GND = 0\text{ V}$, unless otherwise noted. The temperature range for the Y version is -40°C to $+125^{\circ}\text{C}$.

Table 1.

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})	0.5			Ω typ	$V_{DD} = 2.7\text{ V}$, $V_S = 0\text{ V}$ to V_{DD} , $I_S = 100\text{ mA}$; Figure 19
	0.65	0.75	0.8	Ω max	
On-Resistance Match Between Channels (ΔR_{ON})	0.04			Ω typ	$V_{DD} = 2.7\text{ V}$, $V_S = 0.65\text{ V}$, $I_S = 100\text{ mA}$
		0.075	0.08	Ω max	
On-Resistance Flatness ($R_{FLAT(ON)}$)	0.1			Ω typ	$V_{DD} = 2.7\text{ V}$, $V_S = 0\text{ V}$ to V_{DD}
		0.15	0.16	Ω max	$I_S = 100\text{ mA}$
LEAKAGE CURRENTS					
Source Off Leakage I_S (OFF)	± 0.2			nA typ	$V_{DD} = 3.6\text{ V}$ $V_S = 0.6\text{ V}/3.3\text{ V}$, $V_D = 3.3\text{ V}/0.6\text{ V}$; Figure 20
Channel On Leakage I_D , I_S (ON)	± 0.2			nA typ	$V_S = V_D = 0.6\text{ V}$ or 3.3 V ; Figure 21
DIGITAL INPUTS					
Input High Voltage, V_{INH}			2	V min	
Input Low Voltage, V_{INL}			0.8	V max	
Input Current I_{INL} or I_{INH}	0.005			μA typ	$V_{IN} = V_{INL}$ or V_{INH}
			± 0.1	μA max	
C_{IN} , Digital Input Capacitance	4			pF typ	
DYNAMIC CHARACTERISTICS¹					
t_{ON}	21			ns typ	$R_L = 50\ \Omega$, $C_L = 35\text{ pF}$
	26	28	29	ns max	$V_S = 1.5\text{ V}/0\text{ V}$; Figure 22
t_{OFF}	4			ns typ	$R_L = 50\ \Omega$, $C_L = 35\text{ pF}$
	7	8	9	ns max	$V_S = 1.5\text{ V}$; Figure 22
Break-Before-Make Time Delay (t_{BBM})	17			ns typ	$R_L = 50\ \Omega$, $C_L = 35\text{ pF}$
			5	ns min	$V_{S1} = V_{S2} = 1.5\text{ V}$; Figure 23
Charge Injection	40			pC typ	$V_S = 1.5\text{ V}$, $R_S = 0\ \Omega$, $C_L = 1\text{ nF}$; Figure 24
Off Isolation	−67			dB typ	$R_L = 50\ \Omega$, $C_L = 5\text{ pF}$, $f = 100\text{ kHz}$; Figure 25
Channel-to-Channel Crosstalk	−90			dB typ	S1A to S2A/S1B to S2B, $R_L = 50\ \Omega$, $C_L = 5\text{ pF}$, $f = 100\text{ kHz}$; Figure 28
	−67			dB typ	S1A to S1B/S2A to S2B, $R_L = 50\ \Omega$, $C_L = 5\text{ pF}$, $f = 100\text{ kHz}$; Figure 27
Total Harmonic Distortion Plus Noise (THD + N)	0.02			%	$R_L = 32\ \Omega$, $f = 20\text{ Hz}$ to 20 kHz , $V_S = 2\text{ V p-p}$
Insertion Loss	−0.05			dB typ	$R_L = 50\ \Omega$, $C_L = 5\text{ pF}$; Figure 26
−3 dB Bandwidth	57			MHz typ	$R_L = 50\ \Omega$, $C_L = 5\text{ pF}$; Figure 26
C_S (OFF)	25			pF typ	
C_D , C_S (ON)	75			pF typ	
POWER REQUIREMENTS					
I_{DD}	0.003			μA typ	$V_{DD} = 3.6\text{ V}$ Digital inputs = 0 V or 3.6 V
		1	4	μA max	

¹ Guaranteed by design, not subject to production test.

$V_{DD} = 2.5 \text{ V} \pm 0.2 \text{ V}$, $GND = 0 \text{ V}$, unless otherwise noted. The temperature range for the Y version is -40°C to $+125^{\circ}\text{C}$.

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	
On Resistance (R_{ON})	0.65 0.72	0.8	0.88	Ω typ Ω max	$V_{DD} = 2.3 \text{ V}$, $V_S = 0 \text{ V}$ to V_{DD} , $I_S = 100 \text{ mA}$; Figure 19
On-Resistance Match Between Channels (ΔR_{ON})	0.04	0.08	0.085	Ω typ Ω max	$V_{DD} = 2.3 \text{ V}$, $V_S = 0.7 \text{ V}$, $I_S = 100 \text{ mA}$
On-Resistance Flatness ($R_{FLAT(ON)}$)	0.16	0.23	0.24	Ω typ Ω max	$V_{DD} = 2.3 \text{ V}$, $V_S = 0 \text{ V}$ to V_{DD} , $I_S = 100 \text{ mA}$
LEAKAGE CURRENTS					
Source Off Leakage I_S (OFF)	± 0.2			nA typ	$V_{DD} = 2.7 \text{ V}$ $V_S = 0.6 \text{ V}/2.4 \text{ V}$, $V_D = 2.4 \text{ V}/0.6 \text{ V}$; Figure 20
Channel On Leakage I_D , I_S (ON)	± 0.2			nA typ	$V_S = V_D = 0.6 \text{ V}$ or 2.4 V ; Figure 21
DIGITAL INPUTS					
Input High Voltage, V_{INH}			1.7	V min	
Input Low Voltage, V_{INL}			0.7	V max	
Input Current I_{INL} or I_{INH}	0.005		± 0.1	μA typ μA max	$V_{IN} = V_{INL}$ or V_{INH}
C_{IN} , Digital Input Capacitance	4			pF typ	
DYNAMIC CHARACTERISTICS¹					
t_{ON}	23 29	30	31	ns typ ns max	$R_L = 50 \Omega$, $C_L = 35 \text{ pF}$ $V_S = 1.5 \text{ V}/0 \text{ V}$; Figure 22
t_{OFF}	5 7	8	9	ns typ ns max	$R_L = 50 \Omega$, $C_L = 35 \text{ pF}$ $V_S = 1.5 \text{ V}$; Figure 22
Break-before-Make Time Delay (t_{BBM})	17		5	ns typ ns min	$R_L = 50 \Omega$, $C_L = 35 \text{ pF}$ $V_{S1} = V_{S2} = 1.5 \text{ V}$; Figure 23
Charge Injection	30			pC typ	$V_S = 1.25 \text{ V}$, $R_S = 0 \Omega$, $C_L = 1 \text{ nF}$; Figure 24
Off Isolation	−67			dB typ	$R_L = 50 \Omega$, $C_L = 5 \text{ pF}$, $f = 100 \text{ kHz}$; Figure 25
Channel-to-Channel Crosstalk	−90 −67			dB typ dB typ	$S1A$ to $S2A/S1B$ to $S2B$, $R_L = 50 \Omega$, $C_L = 5 \text{ pF}$, $f = 100 \text{ kHz}$; Figure 28 $S1A$ to $S1B/S2A$ to $S2B$, $R_L = 50 \Omega$, $C_L = 5 \text{ pF}$, $f = 100 \text{ kHz}$; Figure 27
Total Harmonic Distortion Plus Noise (THD + N)	0.022			%	$R_L = 32 \Omega$, $f = 20 \text{ Hz}$ to 20 kHz , $V_S = 1.5 \text{ V}$ p-p
Insertion Loss	−0.06			dB typ	$R_L = 50 \Omega$, $C_L = 5 \text{ pF}$; Figure 26
−3 dB Bandwidth	57			MHz typ	$R_L = 50 \Omega$, $C_L = 5 \text{ pF}$; Figure 26
C_S (OFF)	25			pF typ	
C_D , C_S (ON)	75			pF typ	
POWER REQUIREMENTS					
I_{DD}	0.003	1	4	μA typ μA max	$V_{DD} = 2.7 \text{ V}$ Digital inputs = 0 V or 2.7 V

¹ Guaranteed by design, not subject to production test.

$V_{DD} = 1.65\text{ V} \pm 1.95\text{ V}$, $GND = 0\text{ V}$, unless otherwise noted. The temperature range for the Y version is -40°C to $+125^{\circ}\text{C}$.

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	$V_{DD} = 1.8\text{ V}$, $V_S = 0\text{ V}$ to V_{DD} , $I_S = 100\text{ mA}$; Figure 19
On Resistance (R_{ON})	1			Ω typ	
	1.4	2.2	2.2	Ω max	$V_{DD} = 1.65\text{ V}$, $V_S = 0\text{ V}$ to V_{DD} , $I_S = 100\text{ mA}$; Figure 19
	2	4	4	Ω max	
On-Resistance Match Between Channels (ΔR_{ON})	0.1			Ω typ	$V_{DD} = 1.65\text{ V}$, $V_S = 0.7\text{ V}$, $I_S = 100\text{ mA}$
LEAKAGE CURRENTS					$V_{DD} = 1.95\text{ V}$
Source Off Leakage I_S (OFF)	± 0.2			nA typ	$V_S = 0.6\text{ V}/1.65\text{ V}$, $V_D = 1.65\text{ V}/0.6\text{ V}$; Figure 20
Channel On Leakage I_D , I_S (ON)	± 0.2			nA typ	$V_S = V_D = 0.6\text{ V}$ or 1.65 V ; Figure 21
DIGITAL INPUTS					
Input High Voltage, V_{INH}			$0.65 V_{DD}$	V min	$V_{IN} = V_{INL}$ or V_{INH}
Input Low Voltage, V_{INL}			$0.35 V_{DD}$	V max	
Input Current					
I_{INL} or I_{INH}	0.005			μA typ	
			± 0.1	μA max	
C_{IN} , Digital Input Capacitance	4			pF typ	
DYNAMIC CHARACTERISTICS ¹					
t_{ON}	28			ns typ	$R_L = 50\ \Omega$, $C_L = 35\text{ pF}$
	37	38	39	ns max	$V_S = 1.5\text{ V}/0\text{ V}$; Figure 22
t_{OFF}	7			ns typ	$R_L = 50\ \Omega$, $C_L = 35\text{ pF}$
	9	10	11	ns max	$V_S = 1.5\text{ V}$; Figure 22
Break-Before-Make Time Delay (t_{BBM})	21		5	ns typ	$R_L = 50\ \Omega$, $C_L = 35\text{ pF}$
				ns min	$V_{S1} = V_{S2} = 1\text{ V}$; Figure 23
Charge Injection	20			pC typ	$V_S = 1\text{ V}$, $R_S = 0\text{ V}$, $C_L = 1\text{ nF}$; Figure 24
Off Isolation	−67			dB typ	$R_L = 50\ \Omega$, $C_L = 5\text{ pF}$, $f = 100\text{ kHz}$; Figure 25
Channel-to-Channel Crosstalk	−90			dB typ	S1A to S2A/S1B to S2B; $R_L = 50\ \Omega$, $C_L = 5\text{ pF}$, $f = 100\text{ kHz}$; Figure 28
	−67			dB typ	S1A to S1B/S2A to S2B; $R_L = 50\ \Omega$, $C_L = 5\text{ pF}$, $f = 100\text{ kHz}$; Figure 27
Total Harmonic Distortion (THD)	0.14			%	$R_L = 32\ \Omega$, $f = 20\text{ Hz}$ to 20 kHz , $V_S = 1.2\text{ V p-p}$
Insertion Loss	−0.08			dB typ	$R_L = 50\ \Omega$, $C_L = 5\text{ pF}$; Figure 26
−3 dB Bandwidth	57			MHz typ	$R_L = 50\ \Omega$, $C_L = 5\text{ pF}$; Figure 26
C_S (OFF)	25			pF typ	
C_D , C_S (ON)	75			pF typ	
POWER REQUIREMENTS					$V_{DD} = 1.95\text{ V}$
I_{DD}	0.003			μA typ	Digital inputs = 0 V or 1.95 V
		1.0	4	μA max	

¹ Guaranteed by design, not subject to production test.

ABSOLUTE MAXIMUM RATINGS

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

Table 4.

Parameter	Rating
V_{DD} to GND	–0.3 V to +4.6 V
Analog Inputs ¹	–0.3 V to $V_{DD} + 0.3$ V
Digital Inputs ¹	–0.3 V to 4.6 V or 10 mA, whichever occurs first
Peak Current, S or D	
3.3 V Operation	500 mA
2.5 V Operation	460 mA
1.8 V Operation	420 mA (pulsed at 1ms, 10% duty cycle max)
Continuous Current, S or D	
3.3 V Operation	300 mA
2.5 V Operation	275 mA
1.8 V Operation	250 mA
Operating Temperature Range	
Automotive (Y Version)	–40°C to +125°C
Storage Temperature Range	–65°C to +150°C
Junction Temperature	150°C
Thermal Impedance	
MSOP	
θ_{JA}	206°C/W
θ_{JC}	44°C/W
LFCSP	
θ_{JA} (3-Layer Board)	61.1°C/W
IR Reflow, Peak Temperature <20 sec	235°C

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

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

Only one absolute maximum rating may be applied at any one time.

Table 5. Truth Table

Logic	Switch A	Switch B
0	Off	On
1	On	Off

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.

PIN CONFIGURATIONS AND FUNCTION DESCRIPTIONS

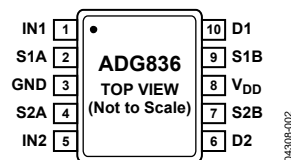
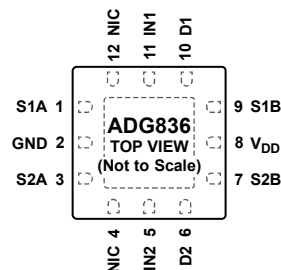


Figure 2. 10-Lead MSOP Pin Configuration (RM-10)



NOTES

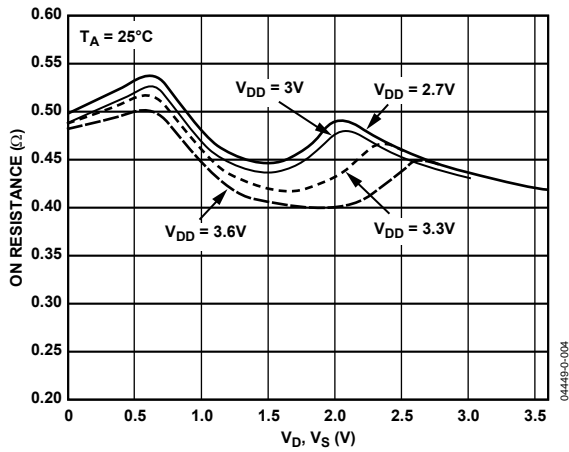
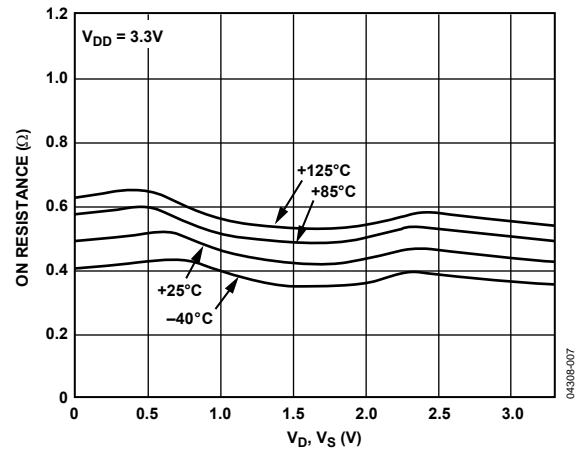
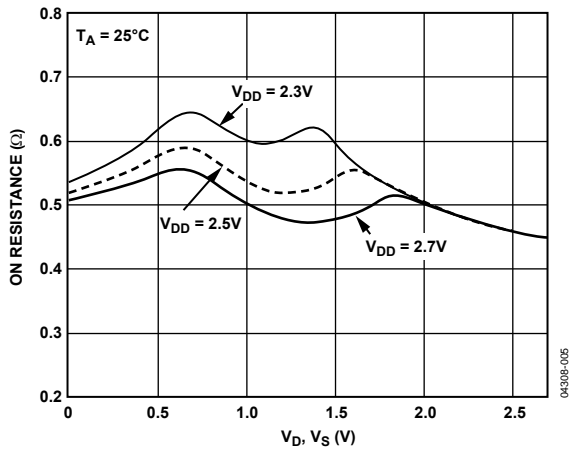
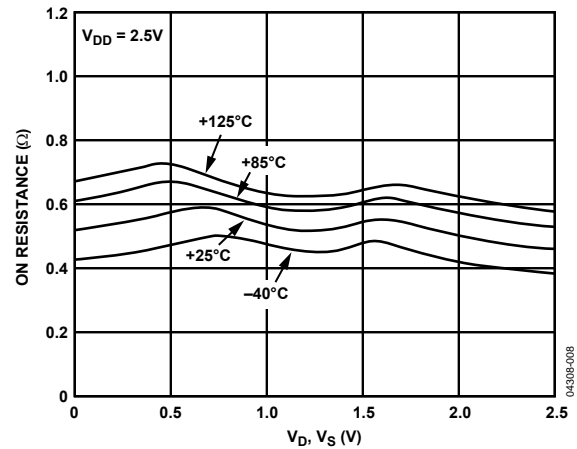
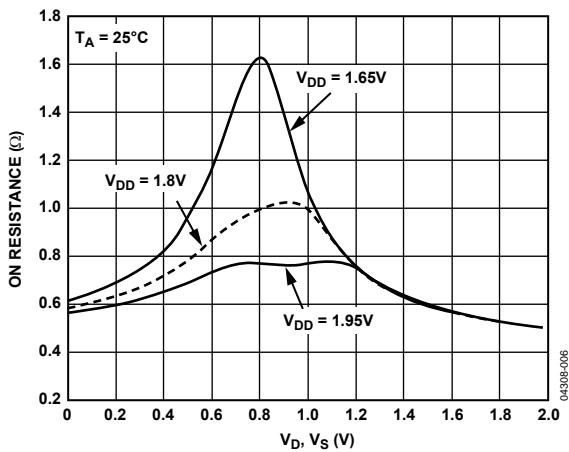
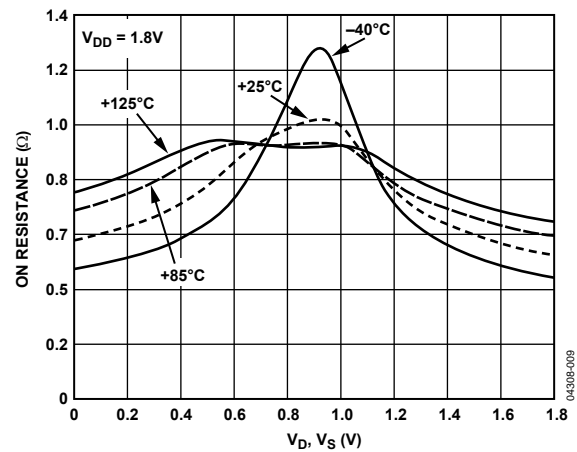
1. NIC = NO INTERNAL CONNECTION.
2. IT IS RECOMMENDED THAT THE EXPOSED PAD BE THERMALLY CONNECTED TO A COPPER PLANE FOR ENHANCED THERMAL PERFORMANCE. THE EXPOSED PAD SHOULD BE GROUNDED AS WELL.

Figure 3. 12-Lead LFCSP Pin Configuration (CP-12-4)

Table 6. Pin Function Descriptions

Pin No.		Mnemonic	Description
MSOP	LFCSP		
1, 5	11, 5	IN1, IN2	Logic Control Inputs.
2, 4, 7, 9	1, 3, 7, 9	S1A, S2A, S2B, S1B	Source Terminals. Can be inputs or outputs.
3	2	GND	Ground (0 V) Reference.
6, 10	6, 10	D2, D1	Drain Terminals. Can be inputs or outputs.
8	8	V _{DD}	Most Positive Power Supply Potential.
Not applicable	4, 12	NIC	No Internal Connection.
Not applicable	0	EPAD	Exposed Pad. It is recommended that the exposed pad be thermally connected to a copper plane for enhanced thermal performance. The exposed pad should be grounded as well.

TYPICAL PERFORMANCE CHARACTERISTICS

Figure 4. On Resistance vs. V_D (V_S), $V_{DD} = 2.7$ V to 3.6 VFigure 7. On Resistance vs. V_D (V_S) for Different Temperatures, 3.3 VFigure 5. On Resistance vs. V_D (V_S), $V_{DD} = 2.5$ V to 0.2 VFigure 8. On Resistance vs. V_D (V_S) for Different Temperatures, 2.5 VFigure 6. On Resistance vs. V_D (V_S), $V_{DD} = 1.8 \pm 3.6$ Figure 9. On Resistance vs. V_D (V_S) for Different Temperatures, 1.8 V

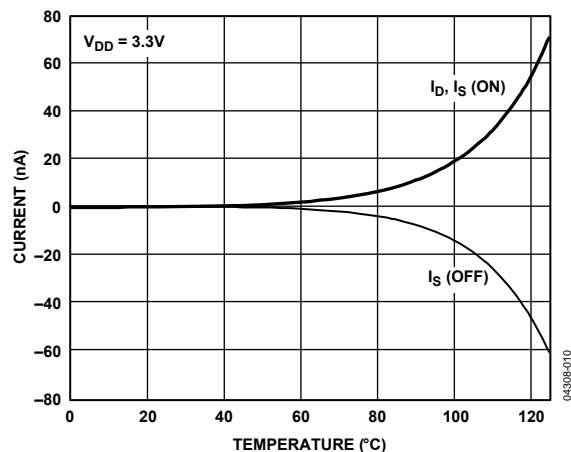


Figure 10. Leakage Current vs. Temperature, 3.3 V

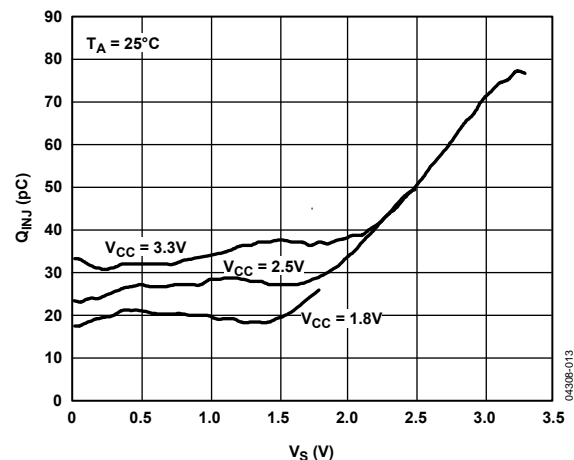


Figure 13. Charge Injection vs. Source Voltage

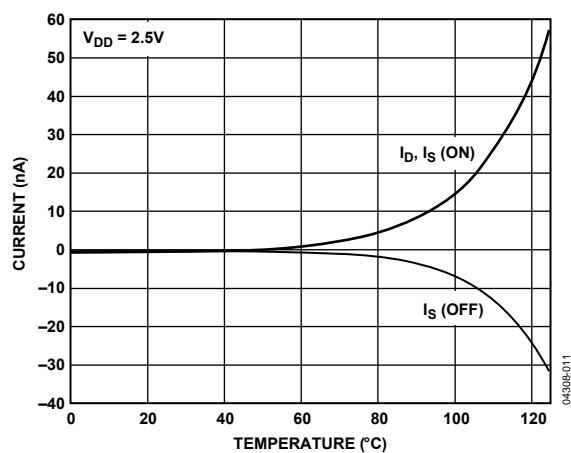


Figure 11. Leakage Current vs. Temperature, 2.5 V

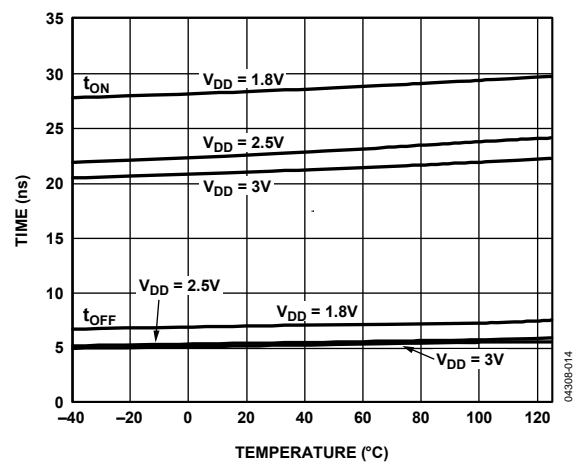
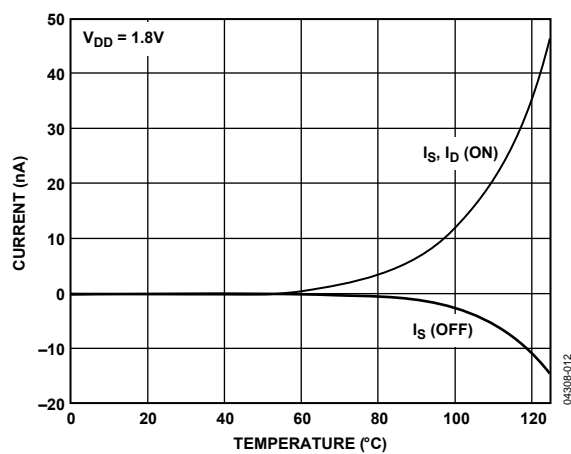
Figure 14. t_{ON}/t_{OFF} Times vs. Temperature

Figure 12. Leakage Current vs. Temperature, 1.8 V

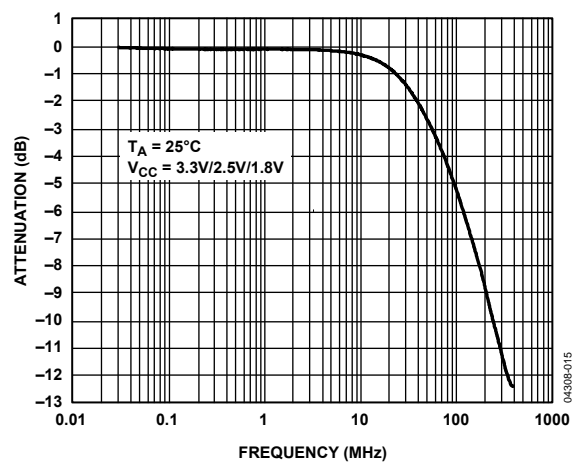


Figure 15. Bandwidth

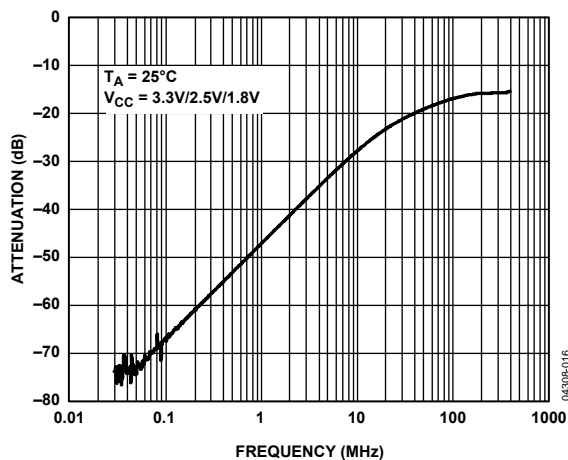


Figure 16. Off Isolation vs. Frequency

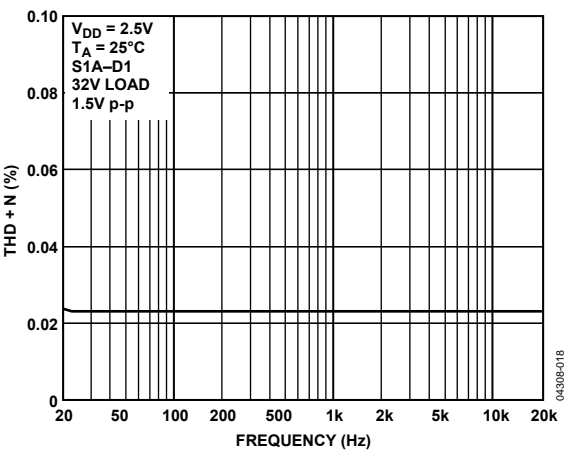


Figure 18. THD + N

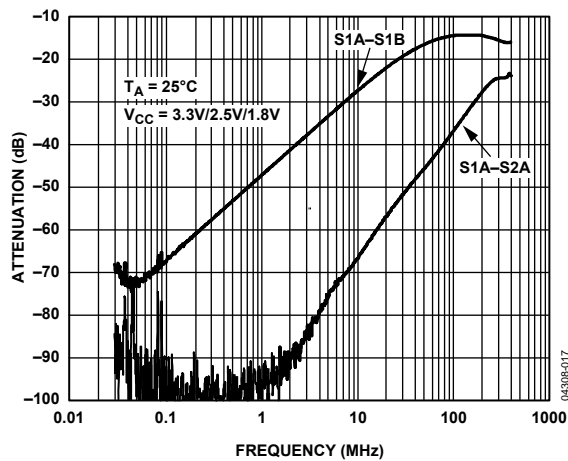


Figure 17. Crosstalk vs. Frequency

TEST CIRCUITS

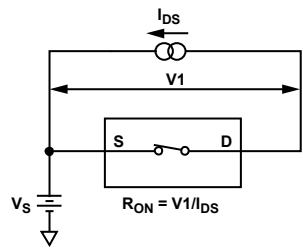


Figure 19. On Resistance

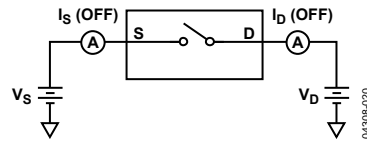


Figure 20. Off Leakage

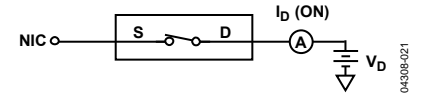


Figure 21. On Leakage

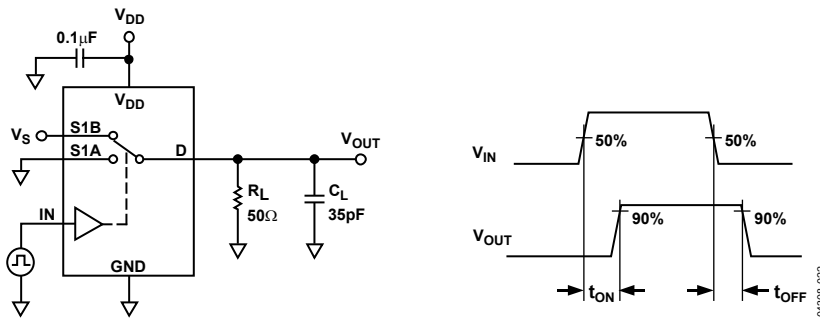
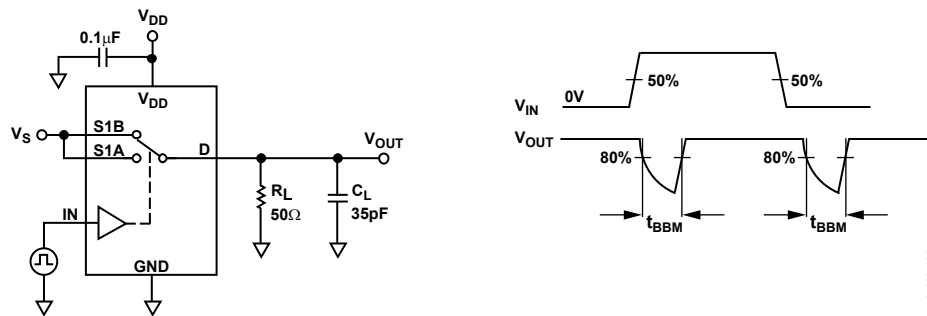
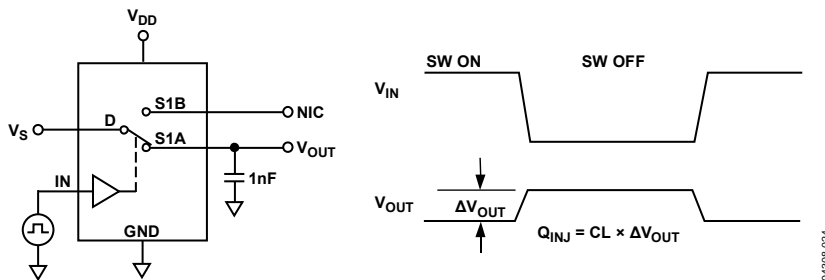
Figure 22. Switching Times, t_{ON} , t_{OFF} Figure 23. Break-Before-Make Time Delay, t_{BBM} 

Figure 24. Charge Injection

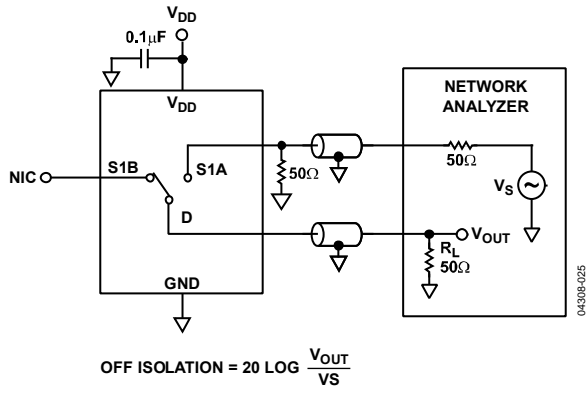


Figure 25. Off Isolation

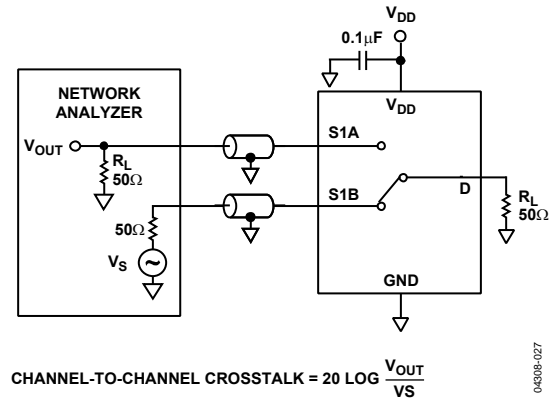


Figure 27. Channel-to-Channel Crosstalk (S1A to S1B)

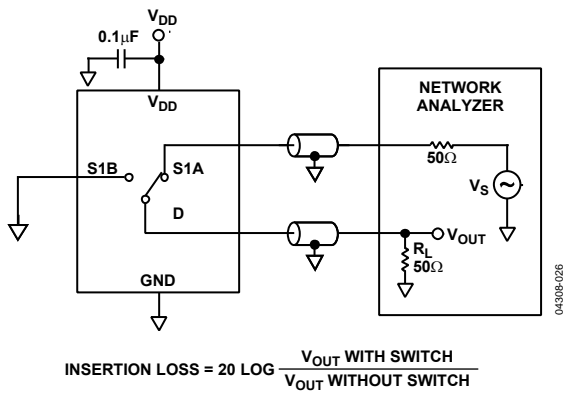


Figure 26. Bandwidth

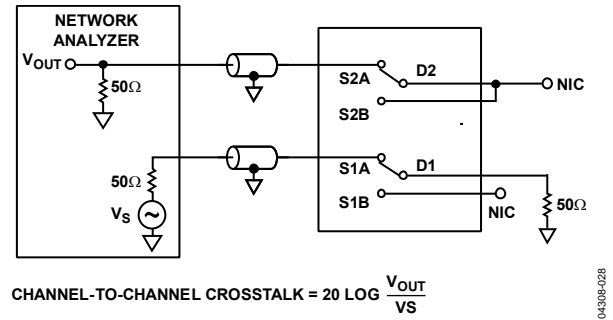


Figure 28. Channel-to-Channel Crosstalk (S1A to S2A)

TERMINOLOGY

I_{DD}

Positive supply current.

V_D (V_S)

Analog voltage on Terminal D and Terminal S.

R_{ON}

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.

ΔR_{ON}

On-resistance match between any two channels.

I_S (OFF)

Source leakage current with the switch off.

I_D (OFF)

Drain leakage current with the switch off.

I_D, I_S (ON)

Channel leakage current with the switch on.

V_{INL}

Maximum input voltage for Logic 0.

V_{INH}

Minimum input voltage for Logic 1.

I_{INL} (I_{INH})

Input current of the digital input.

C_S (OFF)

Off switch source capacitance. Measured with reference to ground.

C_D (OFF)

Off switch drain capacitance. Measured with reference to ground.

C_D, C_S (ON)

On switch capacitance. Measured with reference to ground.

C_{IN}

Digital input capacitance.

t_{ON}

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

t_{OFF}

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

t_{BBM}

On or off time measured between the 80% points of both switches when switching from one to another.

Charge Injection

A measure of the glitch impulse transferred from the digital input to the analog output during on-off switching.

Off Isolation

A measure of unwanted signal coupling through an off switch.

Crosstalk

A measure of unwanted signal, which is coupled through from one channel to another as a result of parasitic capacitance.

–3 dB Bandwidth

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

On Response

The frequency response of the on switch.

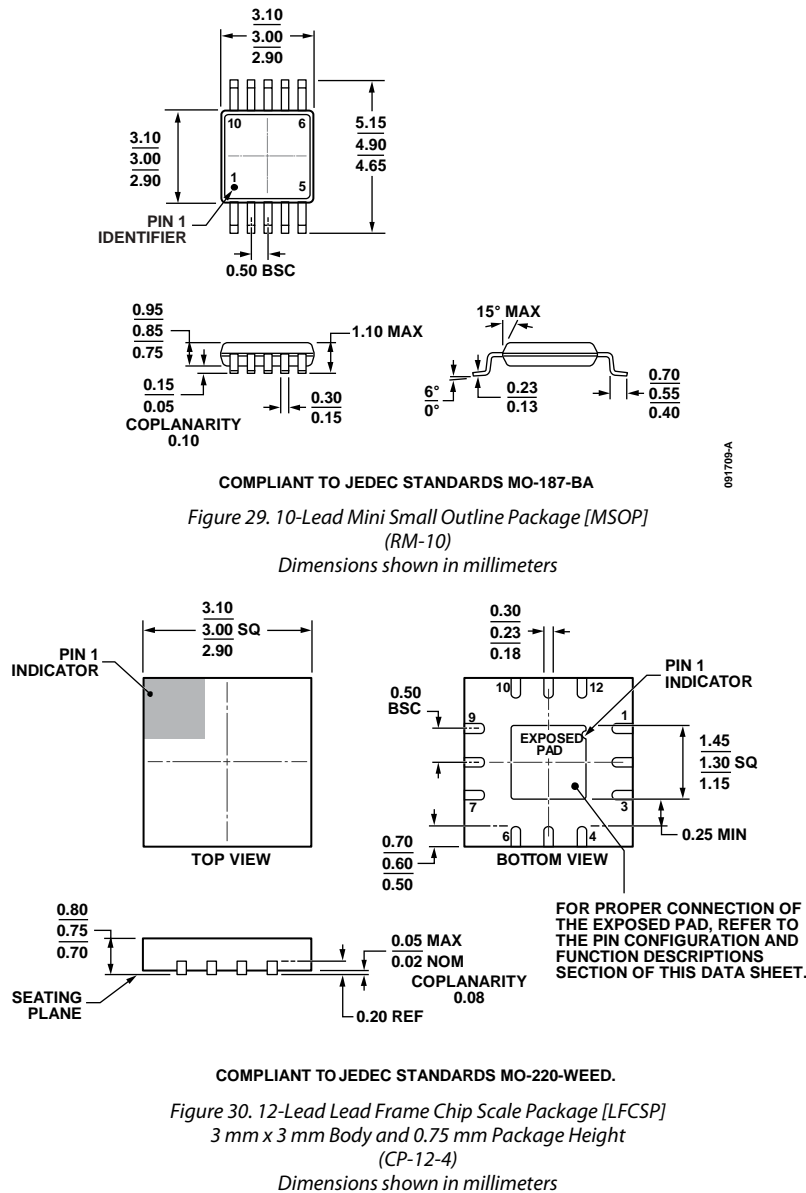
Insertion Loss

The loss due to the on resistance of the switch.

Total Harmonic Distortion Plus Noise (THD + N)

The ratio of the harmonics amplitude plus the noise of a signal to the fundamental.

OUTLINE DIMENSIONS



ORDERING GUIDE

Model ¹	Temperature Range	Package Description	Package Option	Branding ²
ADG836YRM	−40°C to +125°C	10-Lead Mini Small Outline Package [MSOP]	RM-10	S9A
ADG836YRMZ	−40°C to +125°C	10-Lead Mini Small Outline Package [MSOP]	RM-10	S05
ADG836YRMZ-REEL	−40°C to +125°C	10-Lead Mini Small Outline Package [MSOP]	RM-10	S05
ADG836YRMZ-REEL7	−40°C to +125°C	10-Lead Mini Small Outline Package [MSOP]	RM-10	S05
ADG836YCPZ-REEL7	−40°C to +125°C	12-Lead Lead Frame Chip Scale Package [LFCSP]	CP-12-4	S05

¹ Z = RoHS Compliant Part.

² Branding on this package is limited to three characters due to space constraints.

NOTES

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