



THE DATASHEET OF ADG733BRUZ



CMOS, 2.5 Ω Low Voltage, Triple/Quad SPDT Switches

ADG733/ADG734

FEATURES

- 1.8 V to 5.5 V Single Supply
- ± 2.5 V Dual Supply
- 2.5 Ω On Resistance
- 0.5 Ω On Resistance Flatness
- 100 pA Leakage Currents
- 19 ns Switching Times
- Triple SPDT: ADG733
- Quad SPDT: ADG734
- Small TSSOP and QSOP Packages
- Low Power Consumption
- TTL/CMOS Compatible Inputs

APPLICATIONS

- Data Acquisition Systems
- Communication Systems
- Relay Replacement
- Audio and Video Switching
- Battery Powered Systems

GENERAL DESCRIPTION

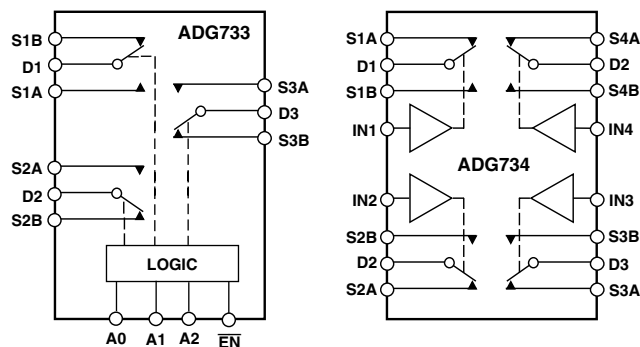
The ADG733 and ADG734 are low voltage, CMOS devices comprising three independently selectable SPDT (single pole, double throw) switches and four independently selectable SPDT switches respectively.

Low power consumption and operating supply range of 1.8 V to 5.5 V and dual ± 2.5 V make the ADG733 and ADG734 ideal for battery powered, portable instruments. All channels exhibit break-before-make switching action preventing momentary shorting when switching channels. An $\overline{\text{EN}}$ input on the ADG733 is used to enable or disable the device. When disabled, all channels are switched OFF.

These 2–1 multiplexers/SPDT switches are designed on an enhanced submicron process that provides low power dissipation yet gives high switching speed, very low on resistance, high signal bandwidths, and low leakage currents. On resistance is in the region of a few ohms, is closely matched between switches, and is very flat over the full signal range. These parts can operate equally well in either direction and have an input signal range that extends to the supplies.

The ADG733 is available in small TSSOP and QSOP packages, while the ADG734 is available in a small TSSOP package.

FUNCTIONAL BLOCK DIAGRAMS



SWITCHES SHOWN FOR A "1" INPUT LOGIC

PRODUCT HIGHLIGHTS

1. Single/Dual Supply Operation. The ADG733 and ADG734 are fully specified and guaranteed with 3 V and 5 V single supply rails and ± 2.5 V dual supply rails.
2. Low On Resistance (2.5 Ω typical)
3. Low Power Consumption ($< 0.01 \mu\text{W}$)
4. Guaranteed Break-Before-Make Switching Action

REV. B

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ADG733/ADG734—SPECIFICATIONS¹ ($V_{DD} = 5\text{ V} \pm 10\%$, $V_{SS} = 0\text{ V}$, $GND = 0\text{ V}$, unless otherwise noted.)

Parameter	B Version		Unit	Test Conditions/Comments
	+25°C	−40°C to +85°C		
ANALOG SWITCH				
Analog Signal Range		0 V to V _{DD}	V	V _S = 0 V to V _{DD} , I _{DS} = 10 mA; Test Circuit 1
On Resistance (R _{ON})	2.5		Ω typ	
	4.5	5.0	Ω max	V _S = 0 V to V _{DD} , I _{DS} = 10 mA
On Resistance Match between		0.1	Ω typ	
Channels (ΔR _{ON})		0.4	Ω max	V _S = 0 V to V _{DD} , I _{DS} = 10 mA
On Resistance Flatness (R _{FLAT(ON)})	0.5		Ω typ	
		1.2	Ω max	
LEAKAGE CURRENTS				
Source OFF Leakage I _S (OFF)	±0.01		nA typ	V _{DD} = 5.5 V V _D = 4.5 V/1 V, V _S = 1 V/4.5 V; Test Circuit 2
	±0.1	±0.3	nA max	
Channel ON Leakage I _D , I _S (ON)	±0.01		nA typ	V _D = V _S = 1 V, or 4.5 V; Test Circuit 3
	±0.1	±0.5	nA max	
DIGITAL INPUTS				
Input High Voltage, V _{INH}		2.4	V min	
Input Low Voltage, V _{INL}		0.8	V max	
Input Current				V _{IN} = V _{INL} or V _{INH}
I _{INL} or I _{INH}	0.005		μA typ	
		±0.1	μA max	
C _{IN} , Digital Input Capacitance	4		pF typ	
DYNAMIC CHARACTERISTICS ²				
t _{ON}	19		ns typ	R _L = 300 Ω, C _L = 35 pF; V _S = 3 V, Test Circuit 4
		34	ns max	
t _{OFF}	7		ns typ	R _L = 300 Ω, C _L = 35 pF; V _S = 3 V, Test Circuit 4
		12	ns max	
ADG733 t _{ON} ($\overline{\text{EN}}$)	20		ns typ	R _L = 300 Ω, C _L = 35 pF; V _S = 3 V, Test Circuit 5
		40	ns max	
t _{OFF} ($\overline{\text{EN}}$)	7		ns typ	R _L = 300 Ω, C _L = 35 pF; V _S = 3 V, Test Circuit 5
		12	ns max	
Break-Before-Make Time Delay, t _D	13		ns typ	R _L = 300 Ω, C _L = 35 pF; V _S = 3 V, Test Circuit 6
		1	ns min	
Charge Injection	±3		pC typ	V _S = 2 V, R _S = 0 Ω, C _L = 1 nF; Test Circuit 7
Off Isolation	−72		dB typ	
Channel-to-Channel Crosstalk	−67		dB typ	R _L = 50 Ω, C _L = 5 pF, f = 1 MHz; Test Circuit 8
−3 dB Bandwidth	160		MHz typ	
C _S (OFF)	11		pF typ	R _L = 50 Ω, C _L = 5 pF, Test Circuit 10 f = 1 MHz
C _D , C _S (ON)	34		pF typ	
POWER REQUIREMENTS				
I _{DD}	0.001		μA typ	V _{DD} = 5.5 V Digital Inputs = 0 V or 5.5 V
		1.0	μA max	

NOTES

¹Temperature range is as follows: B Version: –40°C to +85°C.

²Guaranteed by design, not subject to production test.

Specifications subject to change without notice.

SPECIFICATIONS¹ ($V_{DD} = 3\text{ V} \pm 10\%$, $V_{SS} = 0\text{ V}$, $GND = 0\text{ V}$, unless otherwise noted.)

Parameter	B Version		Unit	Test Conditions/Comments
	+25°C	−40°C to +85°C		
ANALOG SWITCH				
Analog Signal Range		0 V to V _{DD}	V	
On Resistance (R _{ON})	6		Ω typ	V _S = 0 V to V _{DD} , I _{DS} = 10 mA; Test Circuit 1
	11	12	Ω max	
On Resistance Match between Channels (ΔR _{ON})		0.1	Ω typ	V _S = 0 V to V _{DD} , I _{DS} = 10 mA
		0.4	Ω max	
On Resistance Flatness (R _{FLAT(ON)})		3	Ω typ	V _S = 0 V to V _{DD} , I _{DS} = 10 mA
LEAKAGE CURRENTS				
Source OFF Leakage I _S (OFF)	±0.01		nA typ	V _{DD} = 3.3 V V _S = 3 V/1 V, V _D = 1 V/3 V; Test Circuit 2
	±0.1	±0.3	nA max	
Channel ON Leakage I _D , I _S (ON)	±0.01		nA typ	V _S = V _D = 1 V or 3 V; Test Circuit 3
	±0.1	±0.5	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}	0.005		μA typ	V _{IN} = V _{INL} or V _{INH}
		±0.1	μA max	
C _{IN} , Digital Input Capacitance	4		pF typ	
DYNAMIC CHARACTERISTICS ²				
t _{ON}	28		ns typ	R _L = 300 Ω, C _L = 35 pF; V _S = 2 V, Test Circuit 4
		55	ns max	
t _{OFF}	9		ns typ	R _L = 300 Ω, C _L = 35 pF; V _S = 2 V, Test Circuit 4
		16	ns max	
ADG733 t _{ON} ($\overline{\text{EN}}$)	29		ns typ	R _L = 300 Ω, C _L = 35 pF; V _S = 2 V, Test Circuit 5
		60	ns max	
t _{OFF} ($\overline{\text{EN}}$)	9		ns typ	R _L = 300 Ω, C _L = 35 pF; V _S = 2 V, Test Circuit 5
		16	ns max	
Break-Before-Make Time Delay, t _D	22		ns typ	R _L = 300 Ω, C _L = 35 pF; V _S = 2 V, Test Circuit 6
		1	ns min	
Charge Injection	±3		pC typ	V _S = 1 V, R _S = 0 Ω, C _L = 1 nF; Test Circuit 7
Off Isolation	−72		dB typ	R _L = 50 Ω, C _L = 5 pF, f = 1 MHz; Test Circuit 8
Channel-to-Channel Crosstalk	−67		dB typ	R _L = 50 Ω, C _L = 5 pF, f = 1 MHz; Test Circuit 9
−3 dB Bandwidth	160		MHz typ	R _L = 50 Ω, C _L = 5 pF, Test Circuit 10
C _S (OFF)	11		pF typ	f = 1 MHz
C _D , C _S (ON)	34		pF typ	f = 1 MHz
POWER REQUIREMENTS				
I _{DD}	0.001		μA typ	V _{DD} = 3.3 V Digital Inputs = 0 V or 3.3 V
		1.0	μA max	

NOTES

¹Temperature ranges are as follows: B Version: -40°C to +85°C.²Guaranteed by design, not subject to production test.

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ADG733/ADG734—SPECIFICATIONS¹

DUAL SUPPLY ($V_{DD} = +2.5\text{ V} \pm 10\%$, $V_{SS} = -2.5\text{ V} \pm 10\%$, $GND = 0\text{ V}$, unless otherwise noted.)

Parameter	B Version		Unit	Test Conditions/Comments
	+25°C	–40°C to +85°C		
ANALOG SWITCH				
Analog Signal Range		V _{SS} to V _{DD}	V	
On Resistance (R _{ON})	2.5		Ω typ	V _S = V _{SS} to V _{DD} , I _{DS} = 10 mA; Test Circuit 1
	4.5	5.0	Ω max	
On Resistance Match between Channels (ΔR _{ON})		0.1	Ω typ	V _S = V _{SS} to V _{DD} , I _{DS} = 10 mA
		0.4	Ω max	
On Resistance Flatness (R _{FLAT(ON)})	0.5		Ω typ	V _S = V _{SS} to V _{DD} , I _{DS} = 10 mA
		1.2	Ω max	
LEAKAGE CURRENTS				
Source OFF Leakage I _S (OFF)	±0.01		nA typ	V _{DD} = +2.75 V, V _{SS} = –2.75 V
	±0.1	±0.3	nA max	V _S = +2.25 V/–1.25 V, V _D = –1.25 V/+2.25 V; Test Circuit 2
Channel ON Leakage I _D , I _S (ON)	±0.01		nA typ	V _S = V _D = +2.25 V/–1.25 V, Test Circuit 3
	±0.1	±0.5	nA max	
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		μA typ	V _{IN} = V _{INL} or V _{INH}
		±0.1	μA max	
C _{IN} , Digital Input Capacitance	4		pF typ	
DYNAMIC CHARACTERISTICS ²				
t _{ON}	21	35	ns typ	R _L = 300 Ω, C _L = 35 pF; V _S = 1.5 V, Test Circuit 4
			ns max	
t _{OFF}	10	16	ns typ	R _L = 300 Ω, C _L = 35 pF; V _S = 1.5 V, Test Circuit 4
			ns max	
ADG733 t _{ON} ($\overline{\text{EN}}$)	21	40	ns typ	R _L = 300 Ω, C _L = 35 pF; V _S = 1.5 V, Test Circuit 5
			ns max	
t _{OFF} ($\overline{\text{EN}}$)	10	16	ns typ	R _L = 300 Ω, C _L = 35 pF; V _S = 1.5 V, Test Circuit 5
			ns max	
Break-Before-Make Time Delay, t _D	13	1	ns typ	R _L = 300 Ω, C _L = 35 pF; V _S = 1.5 V, Test Circuit 6
			ns min	
Charge Injection	±5		pC typ	V _S = 0 V, R _S = 0 Ω, C _L = 1 nF; Test Circuit 7
Off Isolation	–72		dB typ	R _L = 50 Ω, C _L = 5 pF, f = 1 MHz; Test Circuit 8
Channel-to-Channel Crosstalk	–67		dB typ	R _L = 50 Ω, C _L = 5 pF, f = 1 MHz; Test Circuit 9
–3 dB Bandwidth	200		MHz typ	R _L = 50 Ω, C _L = 5 pF, Test Circuit 10
C _S (OFF)	11		pF typ	f = 1 MHz
C _D , C _S (ON)	34		pF typ	f = 1 MHz
POWER REQUIREMENTS				
I _{DD}	0.001		μA typ	V _{DD} = 2.75 V
		1.0	μA max	Digital Inputs = 0 V or 2.75 V
I _{SS}	0.001		μA typ	V _{SS} = –2.75 V
		1.0	μA max	Digital Inputs = 0 V or 2.75 V

NOTES

¹Temperature range is as follows: B Version: –40°C to +85°C.

²Guaranteed by design, not subject to production test.

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ABSOLUTE MAXIMUM RATINGS¹

(T_A = 25°C, unless otherwise noted.)

V _{DD} to V _{SS}	7 V
V _{DD} to GND	−0.3 V to +7 V
V _{SS} to GND	+0.3 V to −3.5 V
Analog Inputs ²	V _{SS} − 0.3 V to V _{DD} + 0.3 V or 30 mA, Whichever Occurs First
Digital Inputs ²	−0.3 V to V _{DD} + 0.3 V or 30 mA, Whichever Occurs First
Peak Current, S or D	100 mA (Pulsed at 1 ms, 10% Duty Cycle max)
Continuous Current, S or D	30 mA
Operating Temperature Range	
Industrial (A, B Versions)	−40°C to +85°C
Storage Temperature Range	−65°C to +150°C

Junction Temperature	150°C
16-Lead TSSOP, θ _{JA} Thermal Impedance	150.4°C/W
20-Lead TSSOP, θ _{JA} Thermal Impedance	143°C/W
16-Lead QSOP, θ _{JA} Thermal Impedance	149.97°C/W
Lead Temperature, Soldering (10 sec)	300°C
IR Reflow, Peak Temperature (<20 sec)	235°C

NOTES

¹ 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 listed in the operational sections of this specification is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability. Only one absolute maximum rating may be applied at any one time.

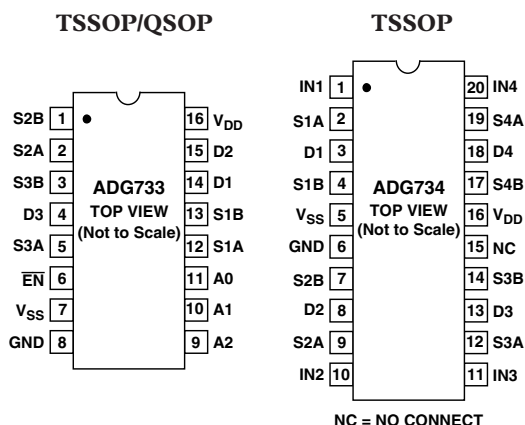
² Overvoltages at A, EN, IN, S, or D will be clamped by internal diodes. Current should be limited to the maximum ratings given.

CAUTION

ESD (electrostatic discharge) sensitive device. Electrostatic charges as high as 4000 V readily accumulate on the human body and test equipment and can discharge without detection. Although the ADG733/ADG734 feature proprietary ESD protection circuitry, permanent damage may occur on devices subjected to high energy electrostatic discharges. Therefore, proper ESD precautions are recommended to avoid performance degradation or loss of functionality.



PIN CONFIGURATIONS



ADG733/ADG734

Table I. ADG733 Truth Table

A2	A1	A0	$\overline{\text{EN}}$	ON Switch
X	X	X	1	None
0	0	0	0	D1-S1A, D2-S2A, D3-S3A
0	0	1	0	D1-S1B, D2-S2A, D3-S3A
0	1	0	0	D1-S1A, D2-S2B, D3-S3A
0	1	1	0	D1-S1B, D2-S2B, D3-S3A
1	0	0	0	D1-S1A, D2-S2A, D3-S3B
1	0	1	0	D1-S1B, D2-S2A, D3-S3B
1	1	0	0	D1-S1A, D2-S2B, D3-S3B
1	1	1	0	D1-S1B, D2-S2B, D3-S3B

X = Don't Care.

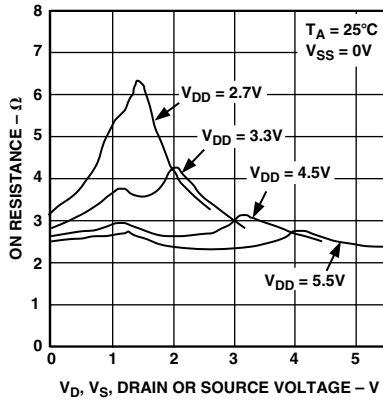
Table II. ADG734 Truth Table

Logic	Switch A	Switch B
0	OFF	ON
1	ON	OFF

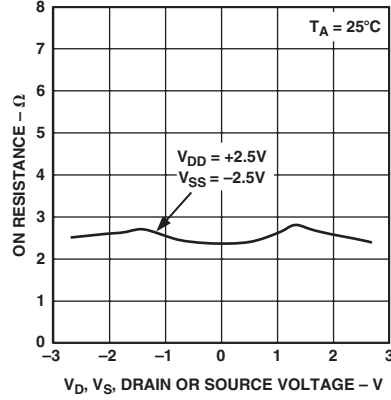
TERMINOLOGY

V_{DD}	Most Positive Power Supply Potential
V_{SS}	Most Negative Power Supply in a Dual Supply Application. In single supply applications, this should be tied to ground close to the device.
I_{DD}	Positive Supply Current
I_{SS}	Negative Supply Current
GND	Ground (0 V) Reference
S	Source Terminal. May be an input or output.
D	Drain Terminal. May be an input or output.
A_X	Logic Control Input
$\overline{\text{EN}}$	Active low device enable
$V_D (V_S)$	Analog Voltage on Terminals D and S
R_{ON}	Ohmic Resistance between D and S
ΔR_{ON}	On Resistance Match between any Two Channels (i.e., R_{ONmax} and R_{ONmin})
$R_{FLAT(ON)}$	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)	Source 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.
$C_D, C_S(ON)$	"ON" Switch Capacitance. Measured with reference to ground.
C_{IN}	Digital Input Capacitance
t_{ON}	Delay Time Measured between the 50% and 90% Points of the Digital Inputs and the Switch "ON" Condition
t_{OFF}	Delay Time Measured between the 50% and 90% Points of the Digital Input and the Switch "OFF" Condition
$t_{ON}(\overline{\text{EN}})$	Delay Time between the 50% and 90% Points of the $\overline{\text{EN}}$ Digital Input and the Switch "ON" Condition
$t_{OFF}(\overline{\text{EN}})$	Delay Time between the 50% and 90% Points of the $\overline{\text{EN}}$ Digital Input and the Switch "OFF" Condition
t_{OPEN}	"OFF" Time Measured between the 80% Points of Both Switches when Switching from One Address State to Another
Charge	A Measure of the Glitch Impulse Transferred Injection from the Digital Input to the Analog Output during Switching
Off Isolation	A Measure of Unwanted Signal Coupling through an "OFF" Switch.
Crosstalk	A Measure of Unwanted Signal that Is Coupled through from One Channel to Another as a Result of Parasitic Capacitance
On Response	The Frequency Response of the "ON" Switch
Insertion Loss	The Loss Due to the On Resistance of the switch

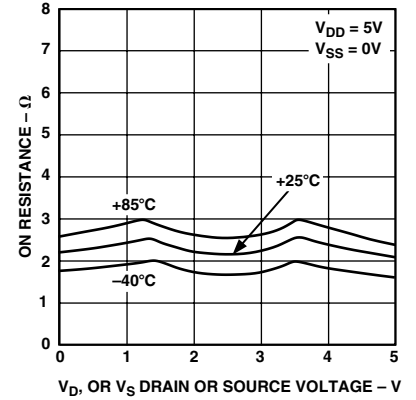
Typical Performance Characteristics—ADG733/ADG734



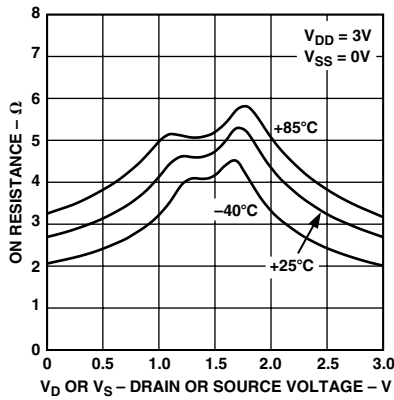
TPC 1. On Resistance as a Function of V_D (V_S) for Single Supply



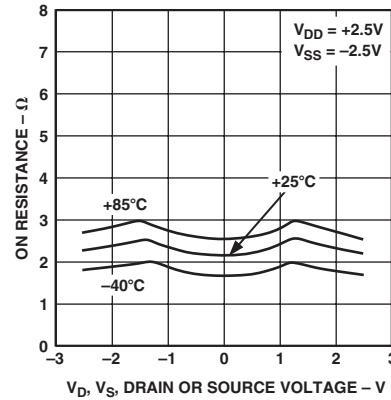
TPC 2. On Resistance as a Function of V_D (V_S) for Dual Supply



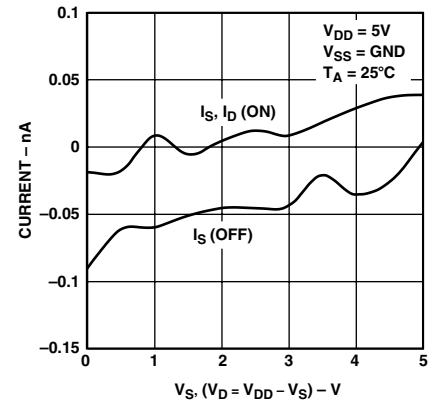
TPC 3. On Resistance as a Function of V_D (V_S) for Different Temperatures, Single Supply



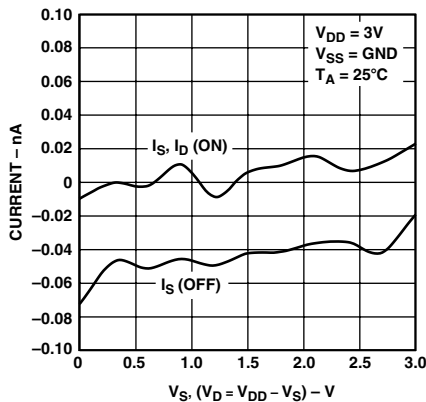
TPC 4. On Resistance as a Function of V_D (V_S) for Different Temperatures, Single Supply



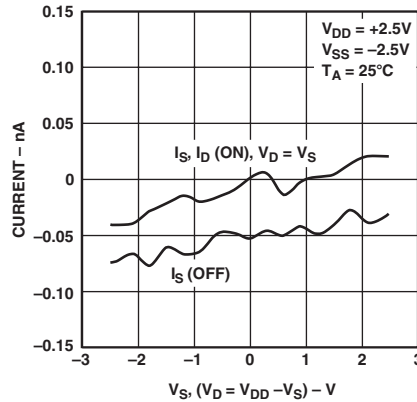
TPC 5. On Resistance as a Function of V_D (V_S) for Different Temperatures, Dual Supply



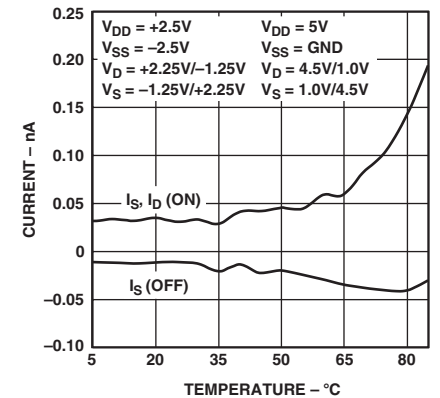
TPC 6. Leakage Currents as a Function of V_D (V_S)



TPC 7. Leakage Currents as a Function of V_D (V_S)

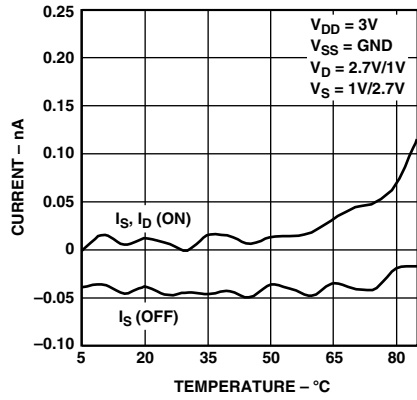


TPC 8. Leakage Currents as a Function of V_D (V_S)

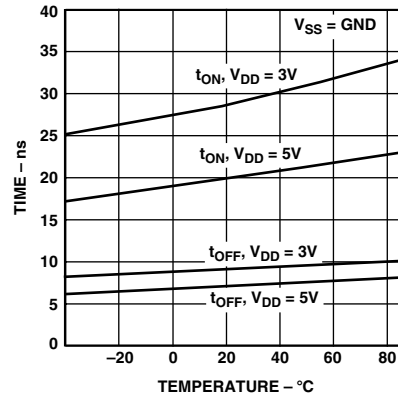


TPC 9. Leakage Currents as a Function of Temperature

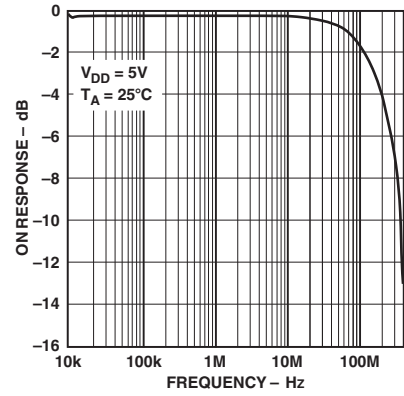
ADG733/ADG734



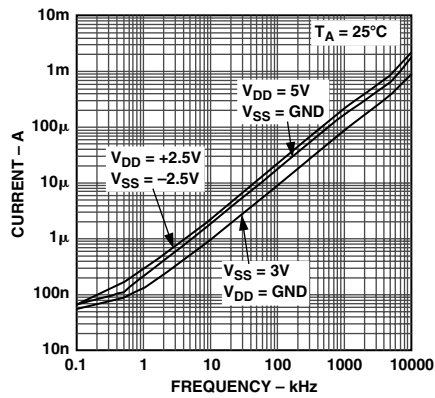
TPC 10. Leakage Currents as a Function of Temperature



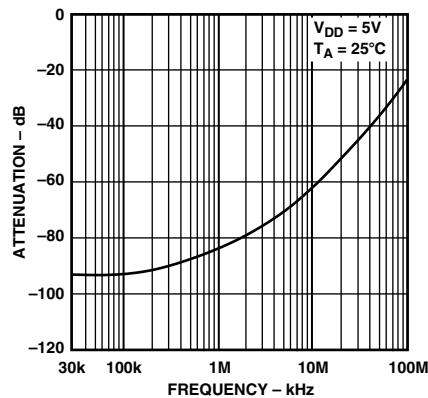
TPC 11. t_{ON}/t_{OFF} Times vs. Temperature



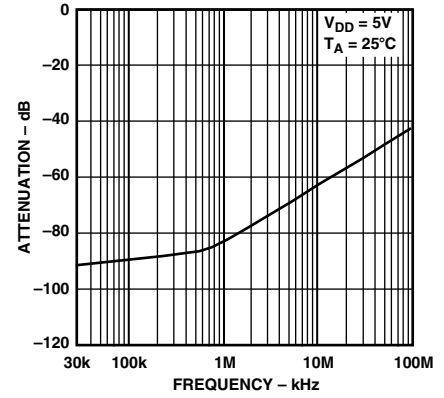
TPC 12. On Response vs. Frequency



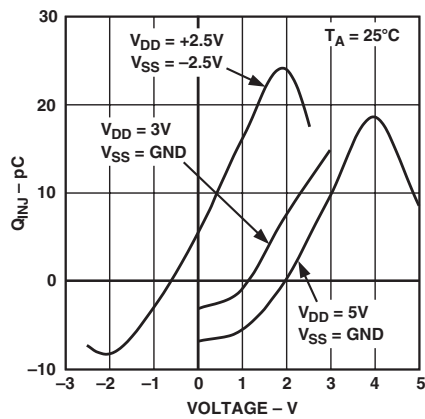
TPC 13. Input Current, I_{DD} vs. Switching Frequency



TPC 14. Off Isolation vs. Frequency

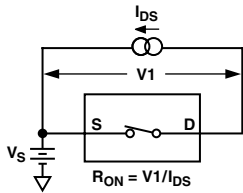


TPC 15. Crosstalk vs. Frequency

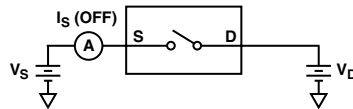


TPC 16. Charge Injection vs. Source Voltage

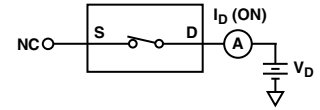
Test Circuits



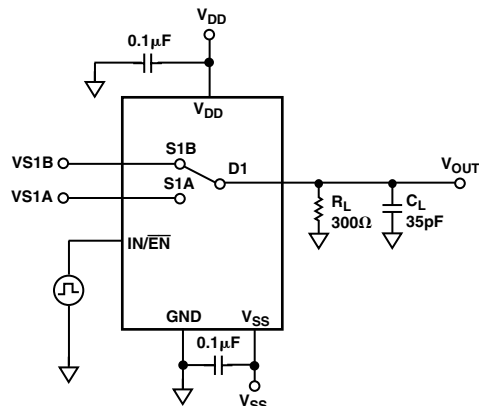
Test Circuit 1. On Resistance



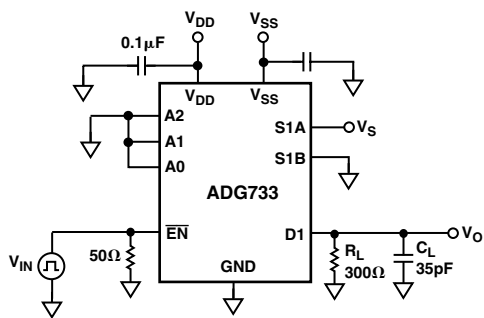
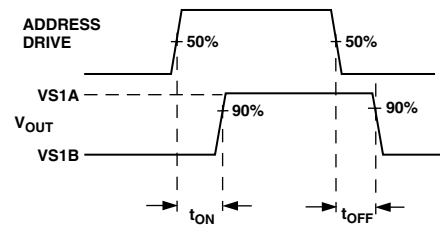
Test Circuit 2. I_S (OFF)



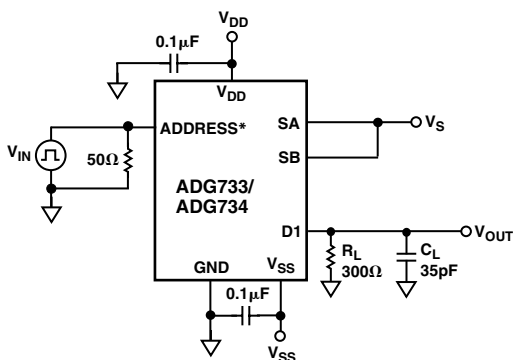
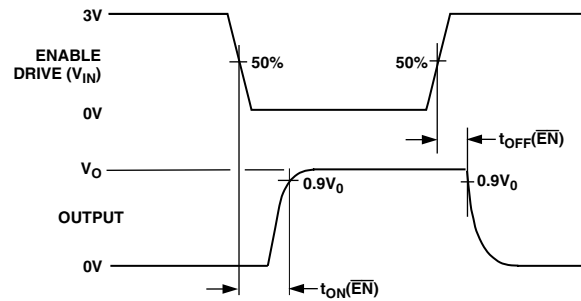
Test Circuit 3. I_D (ON)



Test Circuit 4. Switching Times, t_{ON} , t_{OFF}

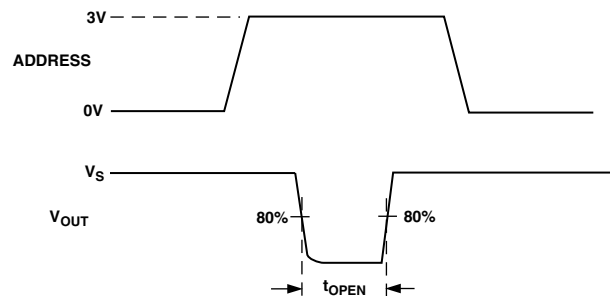


Test Circuit 5. Enable Delay, $t_{ON}(\overline{EN})$, $t_{OFF}(\overline{EN})$

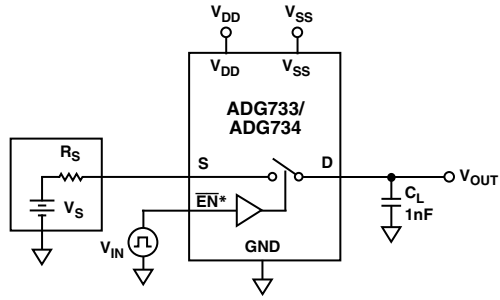


*A0, A1, A2 FOR ADG733, IN1-4 FOR ADG734

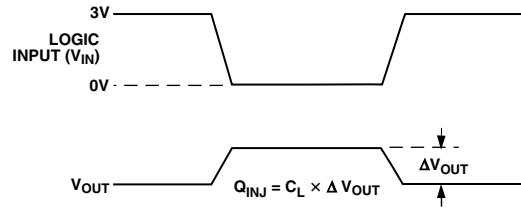
Test Circuit 6. Break-Before-Make Delay, t_{OPEN}



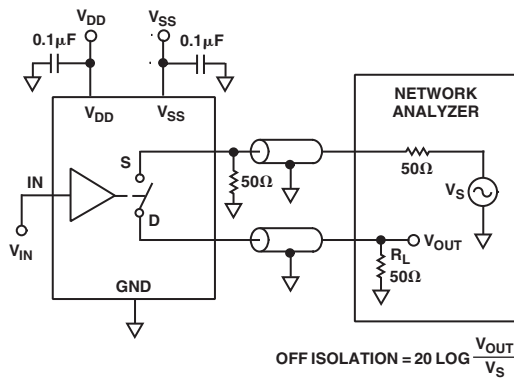
ADG733/ADG734



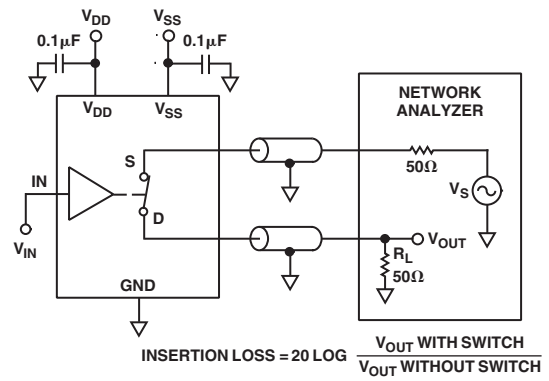
* IN1-4 FOR ADG734



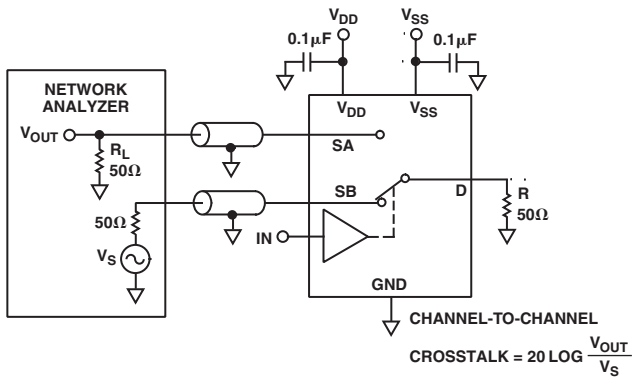
Test Circuit 7. Charge Injection



Test Circuit 8. Off Isolation

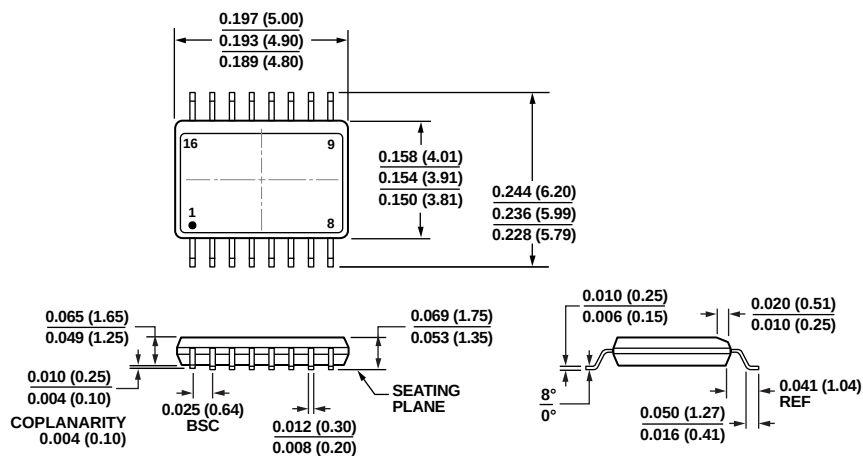


Test Circuit 10. Bandwidth



Test Circuit 9. Channel-to-Channel Crosstalk

OUTLINE DIMENSIONS



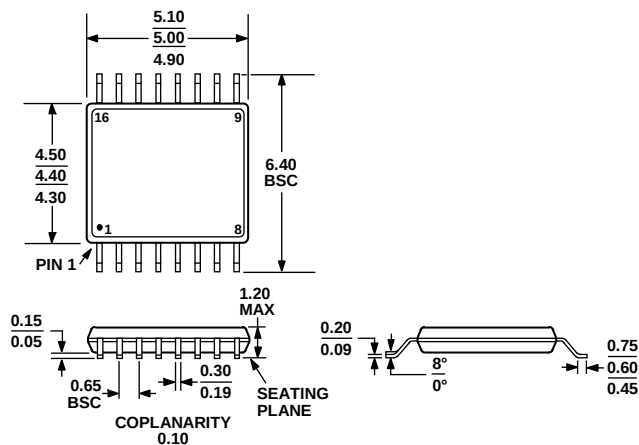
COMPLIANT TO JEDEC STANDARDS MO-137-AB

CONTROLLING DIMENSIONS ARE IN INCHES; MILLIMETER DIMENSIONS
(IN PARENTHESES) ARE ROUNDED-OFF INCH EQUIVALENTS FOR
REFERENCE ONLY AND ARE NOT APPROPRIATE FOR USE IN DESIGN.

Figure 11. 16-Lead Shrink Small Outline Package [QSOP]
(RQ-16)

Dimensions shown in inches and (millimeters)

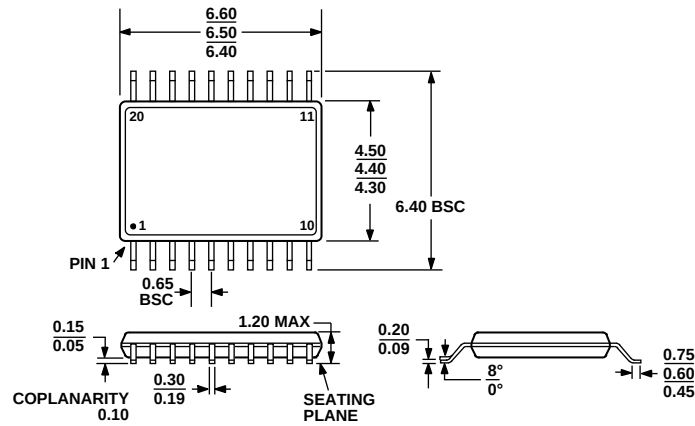
01-28-2008-A



COMPLIANT TO JEDEC STANDARDS MO-153-AB

Figure 12. 16-Lead Thin Shrink Small Outline Package [TSSOP]
(RU-16)

Dimensions shown in millimeters



COMPLIANT TO JEDEC STANDARDS MO-153-AC

Figure 13. 20-Lead Thin Shrink Small Outline Package [TSSOP]
(RU-20)

Dimensions shown in millimeters

ORDERING GUIDE

Model ¹	Temperature Range	Package Description	Package Option
ADG733BRQZ	−40°C to +85°C	16-Lead Shrink Small Outline Package [QSOP]	RQ-16
ADG733BRQZ-REEL	−40°C to +85°C	16-Lead Shrink Small Outline Package [QSOP]	RQ-16
ADG733BRU-REEL7	−40°C to +85°C	16-Lead Thin Shrink Small Outline Package [TSSOP]	RU-16
ADG733BRUZ	−40°C to +85°C	16-Lead Thin Shrink Small Outline Package [TSSOP]	RU-16
ADG733BRUZ-REEL	−40°C to +85°C	16-Lead Thin Shrink Small Outline Package [TSSOP]	RU-16
ADG733BRUZ-REEL7	−40°C to +85°C	16-Lead Thin Shrink Small Outline Package [TSSOP]	RU-16
ADG734BRU	−40°C to +85°C	20-Lead Thin Shrink Small Outline Package [TSSOP]	RU-20
ADG734BRU-REEL	−40°C to +85°C	20-Lead Thin Shrink Small Outline Package [TSSOP]	RU-20
ADG734BRUZ	−40°C to +85°C	20-Lead Thin Shrink Small Outline Package [TSSOP]	RU-20
ADG734BRUZ-REEL	−40°C to +85°C	20-Lead Thin Shrink Small Outline Package [TSSOP]	RU-20
ADG734BRUZ-REEL7	−40°C to +85°C	20-Lead Thin Shrink Small Outline Package [TSSOP]	RU-20

¹ Z = RoHS Compliant Part.

REVISION HISTORY

4/14—Rev. A to Rev. B

Updated Outline Dimensions	11
Changes to Ordering Guide	12

11/02—Data Sheet changed from REV. 0 to REV. A.

Changes to FEATURES	1
Changes to PRODUCT HIGHLIGHTS	1
Changes to SPECIFICATIONS.....	2
Changes to ABSOLUTE MAXIMUM RATINGS Note 2	5
Changes to TERMINOLOGY table	6
Replaced TPCs 2, 5, 8, and 9	7
Edits to TPCs 6 and 7.....	7
Replaced TPC 12.....	8
Edits to TPCs 13 and 16.....	8
Replaced Test Circuits 8 and 9	10
Added Test Circuit 10	10
Updated OUTLINE DIMENSIONS	11

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