

FEATURES

44 V supply maximum rating
V_{SS} to V_{DD} analog signal range
Single- or dual-supply specifications
Wide supply ranges (10.8 V to 16.5 V)
Microprocessor compatible (100 ns WR pulse)
Extended plastic temperature range (-40°C to +85°C)
Low leakage (20 pA typical)
Low power dissipation (28 mW maximum)
Available in PDIP, CERDIP, SOIC, and PLCC packages
Superior alternative to DG526 and DG527

APPLICATIONS

Data acquisition systems
Communication systems
Automatic test equipment
Microprocessor controlled systems

GENERAL DESCRIPTION

The ADG526A and ADG527A are CMOS monolithic analog multiplexers with 16 single channels and dual 8 channels, respectively. On-chip latches facilitate microprocessor interfacing.

The ADG526A switches one of 16 inputs to a common output, depending on the state of four binary addresses and an enable input. The ADG527A switches one of eight differential inputs to a common differential output, depending on the state of three binary addresses and an enable input. Both devices have TTL and 5 V CMOS logic-compatible digital inputs.

The ADG526A and ADG527A are designed on an enhanced LC²MOS process that gives an increased signal capability of V_{SS} to V_{DD} and enables operation over a wide range of supply voltages. The devices can comfortably operate anywhere in the 10.8 V to 16.5 V single- or dual-supply range. These multiplexers also feature high switching speeds and low R_{ON}.

FUNCTIONAL BLOCK DIAGRAMS

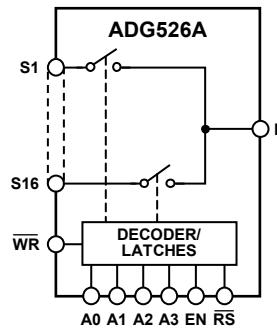


Figure 1. ADG526A

01532-001

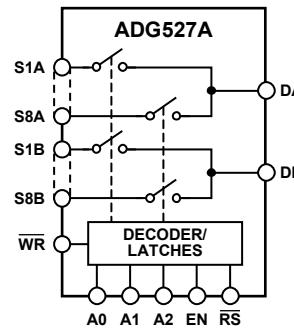


Figure 2. ADG527A

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PRODUCT HIGHLIGHTS

1. Single- or Dual-Supply Specifications with a Wide Tolerance. The devices are specified in the 10.8 V to 16.5 V range for both single and dual supplies.
2. Easily Interfaced. The ADG526A and ADG527A can be easily interfaced with microprocessors. The WR signal latches the state of the address control lines and the enable line. The RS signal clears both the address and enable data in the latches, resulting in no output (all switches off). RS can be tied to the microprocessor reset pin.
3. Extended Signal Range. The enhanced LC²MOS processing results in a high breakdown and an increased analog signal range from V_{SS} to V_{DD}.
4. Break-Before-Make Switching. Switches are guaranteed break-before-make so that input signals are protected against momentary shorting.
5. Low Leakage. Leakage currents in the range of 20 pA make these multiplexers suitable for high precision circuits.

Rev. C

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ADG526A/ADG527A

TABLE OF CONTENTS

Features	1	ESD Caution.....	7
Applications.....	1	Pin Configurations and Function Descriptions	8
General Description	1	Typical Performance Characteristics	11
Functional Block Diagrams.....	1	Terminology	12
Product Highlights	1	Timing.....	13
Revision History	2	Test Circuits.....	14
Specifications.....	3	Outline Dimensions.....	17
Dual Supply.....	3	Ordering Guide	19
Single Supply.....	5		
Absolute Maximum Ratings.....	7		

REVISION HISTORY

6/08—Rev. B to Rev. C.

Updated Format.....	Universal
ADG526A LCCC Package Removed	Universal
Changes to Features.....	1
Added Applications Section	1
Changes to Absolute Maximum Ratings	7
Added Table 4, Renumbered Sequentially	8
Added Table 5.....	9
Changes to Figure 7 and Figure 8.....	11
Updated Outline Dimensions	17
Changes to Ordering Guide	19

2/02—Rev. A to Rev. B.

Edits to Specifications Table, Dual Supply	2
Edits to Specifications Table, Single Supply	3
Edits to Ordering Guide	4
Removal of one Pin Configuration and Diagram	6

SPECIFICATIONS

DUAL SUPPLY

$V_{DD} = 10.8 \text{ V to } 16.5 \text{ V}$, $V_{SS} = -10.8 \text{ V to } -16.5 \text{ V}$, unless otherwise noted.

Table 1.

Parameter	ADG526A/ADG527A						Unit	Comments		
	K Version			B Version						
	25°C	-40°C to +85°C	25°C	-40°C to +85°C	25°C	-55°C to +125°C				
ANALOG SWITCH										
Analog Signal Range	V_{SS}	V_{SS}	V_{SS}	V_{SS}	V_{SS}	V_{SS}	V min			
	V_{DD}	V_{DD}	V_{DD}	V_{DD}	V_{DD}	V_{DD}	V max			
R_{ON}	280		280		280		Ω typ	$-10 \text{ V} \leq V_s \leq +10 \text{ V}$, $I_{DS} = 1 \text{ mA}$; see Figure 15		
	450	600	450	600	450	600	Ω max	$V_{DD} = +15 \text{ V} (\pm 10\%)$, $V_{SS} = -15 \text{ V} (\pm 10\%)$		
	300	400	300	400			Ω max	$V_{DD} = +15 \text{ V} (\pm 5\%)$, $V_{SS} = -15 \text{ V} (\pm 5\%)$		
R_{ON} Drift	0.6		0.6		0.6		%/ $^{\circ}\text{C}$ typ	$-10 \text{ V} \leq V_s \leq +10 \text{ V}$, $I_{DS} = 1 \text{ mA}$		
R_{ON} Match	5		5		5		% typ	$-10 \text{ V} \leq V_s \leq +10 \text{ V}$, $I_{DS} = 1 \text{ mA}$		
I_s (Off), Off Input Leakage	0.02		0.02		0.02		nA typ	$V1 = \pm 10 \text{ V}$, $V2 = \mp 10 \text{ V}$; see Figure 16		
	1	50	1	50	1	50	nA max			
I_D (Off), Off Output Leakage	0.04		0.04		0.04		nA typ	$V1 = \pm 10 \text{ V}$, $V2 = \mp 10 \text{ V}$; see Figure 17		
ADG526A	1	200	1	200	1	200	nA max			
ADG527A	1	100	1	100			nA max			
I_D (On), On Channel Leakage	0.04		0.04		0.04		nA typ	$V1 = \pm 10 \text{ V}$, $V2 = \mp 10 \text{ V}$; see Figure 18		
ADG526A	1	200	1	200	1	200	nA max			
ADG527A	1	100	1	100			nA max			
I_{DIFF} , Differential Off Output Leakage (ADG527A Only)		25		25			nA max	$V1 = \pm 10 \text{ V}$, $V2 = \mp 10 \text{ V}$; see Figure 19		
DIGITAL CONTROL										
V_{INH} , Input High Voltage		2.4		2.4		2.4	V min			
V_{INL} , Input Low Voltage		0.8		0.8		0.8	V max			
I_{INL} or I_{INH}		1		1		1	μA max			
C_{IN} , Digital Input Capacitance	8		8		8		pF max	$V_{IN} = 0 \text{ to } V_{DD}$		
DYNAMIC CHARACTERISTICS¹										
$t_{TRANSITION}$	200		200		200		ns typ	$V1 = \pm 10 \text{ V}$, $V2 = \mp 10 \text{ V}$; see Figure 20		
	300	400	300	400	300	400	ns max			
t_{OPEN}	50		50		50		ns typ	See Figure 21		
	25	10	25	10	25	10	ns min			
t_{ON} (EN , \overline{WR})	200		200		200		ns typ	See Figure 22 and Figure 23		
	300	400	300	400	300	400	ns max			
t_{OFF} (EN , \overline{RS})	200		200		200		ns typ	See Figure 22 and Figure 24		
	300	400	300	400	300	400	ns max			
t_w , Write Pulse Width	100	120	100	120	100	130	ns min	See Figure 13		
t_s , Address Enable Setup Time		100		100		100	ns min	See Figure 13		
t_h , Address Enable Hold Time		10		10		10	ns min	See Figure 13		
t_{RS} , Reset Pulse Width		100		100		100	ns min	See Figure 14		

ADG526A/ADG527A

Parameter	ADG526A/ADG527A			ADG526A	Unit	Comments
	K Version		B Version			
	25°C –40°C to +85°C	25°C –40°C to +85°C	25°C –55°C to +125°C			
Off Isolation	68	68	68	dB typ	V _{EN} = 0.8 V, R _L = 1 kΩ, C _L = 15 pF, V _S = 7 V rms, f = 100 kHz	
C _S (Off)	50	50	50	dB min	V _S = 7 V rms, f = 100 kHz	
C _D (Off)	5	5	5	pF typ	V _{EN} = 0.8 V	
ADG526A	44	44	44	pF typ	V _{EN} = 0.8 V	
ADG527A	22	22	22	pF typ		
Q _{INJ} , Charge Injection	4	4	4	pC typ	R _S = 0 Ω, V _S = 0 V; see Figure 25	
<hr/>						
POWER SUPPLY						
I _{DD}	0.6	0.6	0.6	mA typ	V _{IN} = V _{INL} or V _{INH}	
	1.5	1.5	1.5	mA max		
I _{SS}	20	20	20	μA typ	V _{IN} = V _{INL} or V _{INH}	
	0.2	0.2	0.2	mA max		
Power Dissipation	10	10	10	mW typ		
	28	28	28	mW max		

¹ Sample tested at 25°C to ensure compliance.

SINGLE SUPPLY

$V_{DD} = 10.8\text{ V}$ to 16.5 V , $V_{SS} = \text{GND}$ to 0 V , unless otherwise noted.

Table 2.

Parameter	ADG526A/ADG527A				Unit	Comments	
	K Version 25°C –40°C to +85°C		B Version 25°C –40°C to +85°C				
ANALOG SWITCH							
Analog Signal Range	V_{SS}	V_{SS}	V_{SS}	V_{SS}	V_{min}		
	V_{DD}	V_{DD}	V_{DD}	V_{DD}	V_{max}		
R_{ON}	500		500		Ω_{typ}	$0\text{ V} \leq V_S \leq 10\text{ V}$, $I_{DS} = 0.5\text{ mA}$; see Figure 15	
	700	1000	700	1000	Ω_{max}		
R_{ON} Drift	0.6		0.6		%/ $^{\circ}\text{C}$ typ	$0\text{ V} \leq V_S \leq 10\text{ V}$, $I_{DS} = 0.5\text{ mA}$	
R_{ON} Match	5		5		% typ	$0\text{ V} \leq V_S \leq 10\text{ V}$, $I_{DS} = 0.5\text{ mA}$	
I_S (Off), Off Input Leakage	0.02		0.02		nA typ	$V_1 = 10\text{ V}/0\text{ V}$, $V_2 = 0\text{ V}/10\text{ V}$; see Figure 16	
	1	50	1	50	nA max		
I_D (Off), Off Output Leakage	0.04		0.04		nA typ	$V_1 = 10\text{ V}/0\text{ V}$, $V_2 = 0\text{ V}/10\text{ V}$; see Figure 17	
ADG526A	1	200	1	200	nA max		
ADG527A	1	100	1	100	nA max		
I_D (On), On Channel Leakage	0.04		0.04		nA typ	$V_1 = 10\text{ V}/0\text{ V}$, $V_2 = 0\text{ V}/10\text{ V}$; see Figure 18	
ADG526A	1	200	1	200	nA max		
ADG527A	1	100	1	100	nA max		
I_{DIFF} , Differential Off Output Leakage (ADG527A Only)	25		25		nA max	$V_1 = 10\text{ V}/0\text{ V}$, $V_2 = 0\text{ V}/10\text{ V}$; see Figure 19	
DIGITAL CONTROL							
V_{INH} , Input High Voltage	2.4		2.4		V_{min}		
V_{INL} , Input Low Voltage	0.8		0.8		V_{max}		
I_{INL} or I_{INH}	1		1		μA_{max}	$V_{IN} = 0$ to V_{DD}	
C_{IN} , Digital Input Capacitance	8		8		pF max		
DYNAMIC CHARACTERISTICS¹							
$t_{TRANSITION}$	300		300		ns typ	$V_1 = 10\text{ V}/0\text{ V}$, $V_2 = 0\text{ V}/10\text{ V}$; see Figure 20	
	450	600	450	600	ns max		
t_{OPEN}	50		50		ns typ	See Figure 21	
	25	10	25	10	ns min		
t_{ON} (EN , \overline{WR})	250		250		ns typ	See Figure 22 and Figure 23	
	450	600	450	600	ns max		
t_{OFF} (EN , \overline{RS})	250		250		ns typ	See Figure 22 and Figure 24	
	450	600	450	600	ns max		
t_w Write Pulse Width	100	120	100	120	ns min	See Figure 13	
t_s Address Enable Setup Time		100		100	ns min	See Figure 13	
t_h Address Enable Hold Time		10		10	ns min	See Figure 13	
t_{RS} Reset Pulse Width		100		100	ns min	See Figure 14	
Off Isolation	68		68		dB_{typ}	$V_{EN} = 0.8\text{ V}$, $R_L = 1\text{ k}\Omega$, $C_L = 15\text{ pF}$	
	50		50		dB_{min}	$V_S = 3.5\text{ V rms}$, $f = 100\text{ kHz}$	

ADG526A/ADG527A

Parameter	ADG526A/ADG527A				ADG526A		Unit	Comments
	K Version		B Version		T Version			
	25°C	-40°C to +85°C	25°C	-40°C to +85°C	25°C	-55°C to +125°C		
C _S (Off)	5		5		5		pF typ	V _{EN} = 0.8 V
C _D (Off)								
ADG526A	44		44		44		pF typ	V _{EN} = 0.8 V
ADG527A	22		22				pF typ	
Q _{INJ} , Charge Injection	4		4		4		pC typ	R _S = 0 Ω, V _S = 0 V; see Figure 25
POWER SUPPLY								
I _{DD}	0.6	1.5	0.6	1.5	0.6	1.5	mA typ	V _{IN} = V _{INL} or V _{INH}
Power Dissipation	11	25	11	25	11	25	mA max	
							mW typ	
							mW max	

¹ Sample tested at 25°C to ensure compliance.

ABSOLUTE MAXIMUM RATINGS

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

Table 3.

Parameter	Rating
V_{DD} to V_{SS}	44 V
V_{DD} to GND	25 V
V_{SS} to GND	-25 V
Analog Inputs ¹	
Voltage at Sx or Dx Pins	$V_{SS} - 2\text{ V}$ to $V_{DD} + 2\text{ V}$ or 20 mA, whichever occurs first
Continuous Current, Sx or Dx Pins	20 mA
Pulsed Current, Sx or Dx Pins	40 mA
1 ms Duration, 10% Duty Cycle	
Digital Inputs ¹	
Voltage at A, EN, \overline{WR} , \overline{RS}	$V_{SS} - 4\text{ V}$ to $V_{DD} + 4\text{ V}$ or 20 mA, whichever occurs first
Power Dissipation (Any Package)	
Up to 75°C	470 mW
Derates Above 75°C	6 mW/ $^\circ\text{C}$
Operating Temperature Range	
Commercial (K Version)	-40°C to +85°C
Industrial (B Version)	-40°C to +85°C
Storage Temperature Range	-65°C to +150°C
Lead Temperature (Soldering, 10 sec)	300°C

¹ Overvoltage at A, EN, \overline{WR} , \overline{RS} , Sx, or Dx pins are clamped by diodes. Limit current to the maximum rating in Table 3.

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.

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.

ADG526A/ADG527A

PIN CONFIGURATIONS AND FUNCTION DESCRIPTIONS

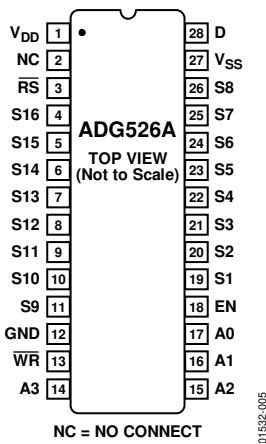


Figure 3. ADG526A PDIP, SOIC, and CERDIP Pin Configuration

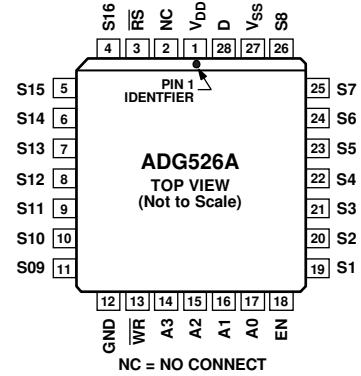


Figure 4. ADG526A PLCC Pin Configuration

Table 4. ADG526A Pin Function Descriptions

Pin No.	Mnemonic	Description
1	V _{DD}	Most Positive Power Supply Potential.
2	NC	No Connect.
3	RS	Reset. The RS signal clears both the address and enable data in the latches resulting in no output (all switches off).
4	S16	Source Terminal. This pin can be an input or output.
5	S15	Source Terminal. This pin can be an input or output.
6	S14	Source Terminal. This pin can be an input or output.
7	S13	Source Terminal. This pin can be an input or output.
8	S12	Source Terminal. This pin can be an input or output.
9	S11	Source Terminal. This pin can be an input or output.
10	S10	Source Terminal. This pin can be an input or output.
11	S9	Source Terminal. This pin can be an input or output.
12	GND	Ground (0 V) Reference.
13	WR	Write. The WR signal latches the state of the address control lines and the enable line.
14	A3	Logic Control Inputs. Selects which source terminal is connected to the drain (D).
15	A2	Logic Control Inputs. Selects which source terminal is connected to the drain (D).
16	A1	Logic Control Inputs. Selects which source terminal is connected to the drain (D).
17	A0	Logic control inputs. Selects which source terminal is connected to the drain (D).
18	EN	Enable. Active high logic control input.
19	S1	Source Terminal. This pin can be an input or output.
20	S2	Source Terminal. This pin can be an input or output.
21	S3	Source Terminal. This pin can be an input or output.
22	S4	Source Terminal. This pin can be an input or output.
23	S5	Source Terminal. This pin can be an input or output.
24	S6	Source Terminal. This pin can be an input or output.
25	S7	Source Terminal. This pin can be an input or output.
26	S8	Source Terminal. This pin can be an input or output.
27	V _{SS}	Most Negative Power Supply Potential.
28	D	Drain Terminal. This pin can be an input or output.

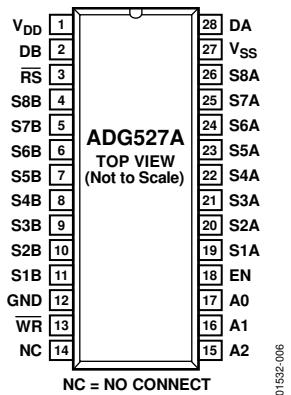


Figure 5. ADG527A PDIP, SOIC Pin Configuration

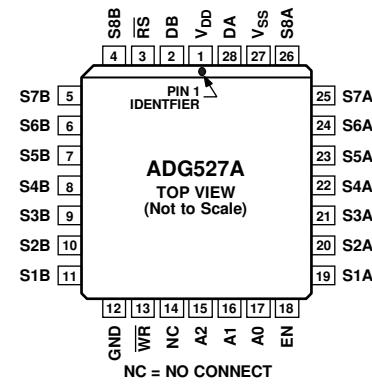


Figure 6. ADG527A PLCC Pin Configuration

Table 5. ADG527A Pin Function Descriptions

Pin No.	Mnemonic	Description
1	V _{DD}	Most Positive Power Supply Potential.
2	DB	Drain Terminal. This pin can be an input or output.
3	RS	Reset. The \overline{RS} signal clears both the address and enable data in the latches resulting in no output (all switches off).
4	S8B	Source Terminal. This pin can be an input or output.
5	S7B	Source Terminal. This pin can be an input or output.
6	S6B	Source Terminal. This pin can be an input or output.
7	S5B	Source Terminal. This pin can be an input or output.
8	S4B	Source Terminal. This pin can be an input or output.
9	S3B	Source Terminal. This pin can be an input or output.
10	S2B	Source Terminal. This pin can be an input or output.
11	S1B	Source Terminal. This pin can be an input or output.
12	GND	Ground (0 V) Reference.
13	WR	Write. The WR signal latches the state of the address control lines and the enable line.
14	NC	No Connect.
15	A2	Logic Control Inputs. Selects which source terminal is connected to the drain (D).
16	A1	Logic Control Inputs. Selects which source terminal is connected to the drain (D).
17	A0	Logic Control Inputs. Selects which source terminal is connected to the drain (D).
18	EN	Enable. Active high logic control input.
19	S1A	Source Terminal. This pin can be an input or output.
20	S2A	Source Terminal. This pin can be an input or output.
21	S3A	Source Terminal. This pin can be an input or output.
22	S4A	Source Terminal. This pin can be an input or output.
23	S5A	Source Terminal. This pin can be an input or output.
24	S6A	Source Terminal. This pin can be an input or output.
25	S7A	Source Terminal. This pin can be an input or output.
26	S8A	Source Terminal. This pin can be an input or output.
27	V _{SS}	Most Negative Power Supply Potential.
28	DA	Drain Terminal. This pin can be an input or output.

ADG526A/ADG527A

Table 6. ADG526A Truth Table¹

A3	A2	A1	A0	EN	WR	RS	ON SWITCH
X	X	X	X	X	✓	1	Retains previous switch condition
X	X	X	X	X	X	0	None (address and enable latches cleared)
X	X	X	X	0	0	1	None
0	0	0	0	1	0	1	1
0	0	0	1	1	0	1	2
0	0	1	0	1	0	1	3
0	0	1	1	1	0	1	4
0	1	0	0	1	0	1	5
0	1	0	1	1	0	1	6
0	1	1	0	1	0	1	7
0	1	1	1	1	0	1	8
1	0	0	0	1	0	1	9
1	0	0	1	1	0	1	10
1	0	1	0	1	0	1	11
1	0	1	1	1	0	1	12
1	1	0	0	1	0	1	13
1	1	0	1	1	0	1	14
1	1	1	0	1	0	1	15
1	1	1	1	1	0	1	16

¹ X = don't care.

Table 7. ADG527A Truth Table¹

A2	A1	A0	EN	WR	RS	ON SWITCH PAIR
X	X	X	X	✓	1	Retains previous switch condition
X	X	X	X	X	0	None (address and enable latches cleared)
X	X	X	0	0	1	None
0	0	0	1	0	1	1
0	0	1	1	0	1	2
0	1	0	1	0	1	3
0	1	1	1	0	1	4
1	0	0	1	0	1	5
1	0	1	1	0	1	6
1	1	0	1	0	1	7
1	1	1	1	0	1	8

¹ X = don't care.

TYPICAL PERFORMANCE CHARACTERISTICS

The multiplexers are guaranteed functional with reduced single or dual supplies down to 4.5 V.

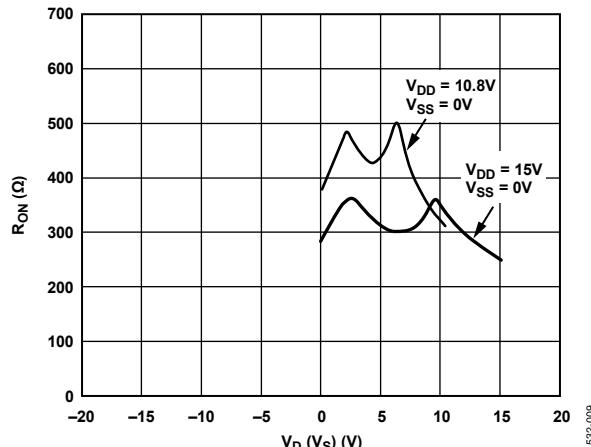


Figure 7. R_{ON} as a Function of V_D (V_S): Single-Supply Voltage, $T_A = 25^\circ\text{C}$

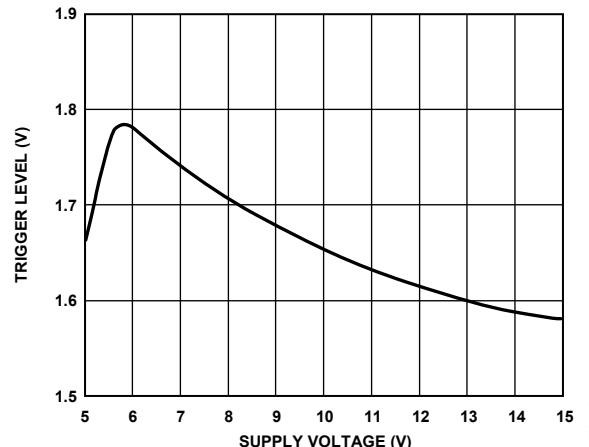


Figure 10. Trigger Levels vs. Power Supply Voltage, Dual or Single Supply, $T_A = 25^\circ\text{C}$

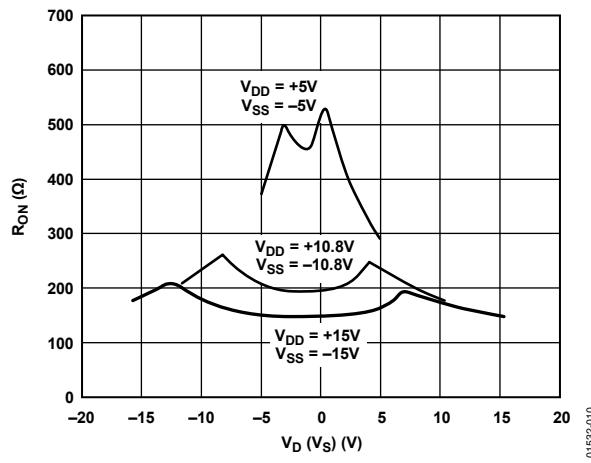


Figure 8. R_{ON} as a Function of V_D (V_S): Dual-Supply Voltage, $T_A = 25^\circ\text{C}$

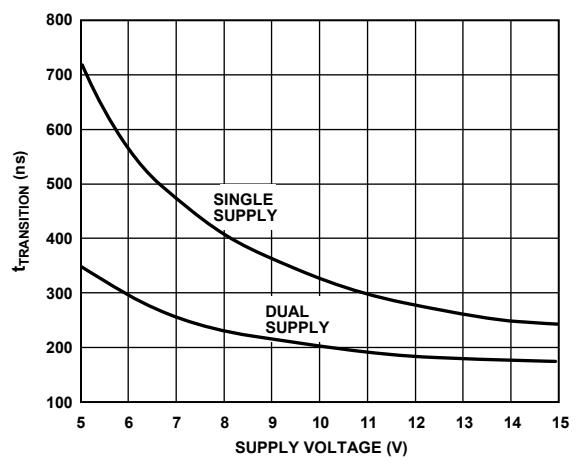


Figure 11. $t_{\text{TRANSITION}}$ vs. Supply Voltage: Dual and Single Supplies, $T_A = 25^\circ\text{C}$
(Note: For V_{DD} and $V_{SS} < 10$ V; $V1 = V_{DD}/V_{SS}$, $V2 = V_{SS}/V_{DD}$; See Figure 20)

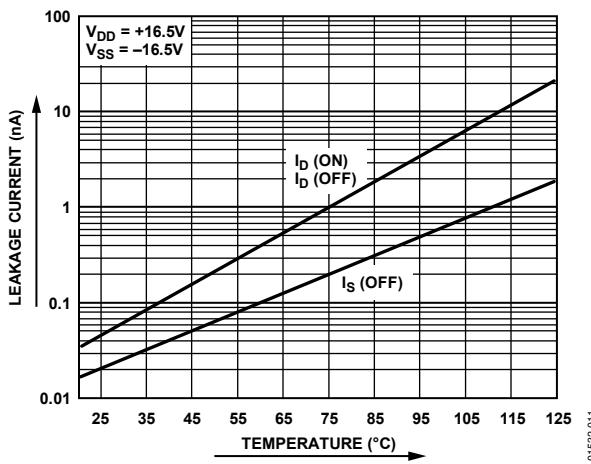


Figure 9. Leakage Current as a Function of Temperature (Leakage Currents Reduce as the Supply Voltages Reduce)

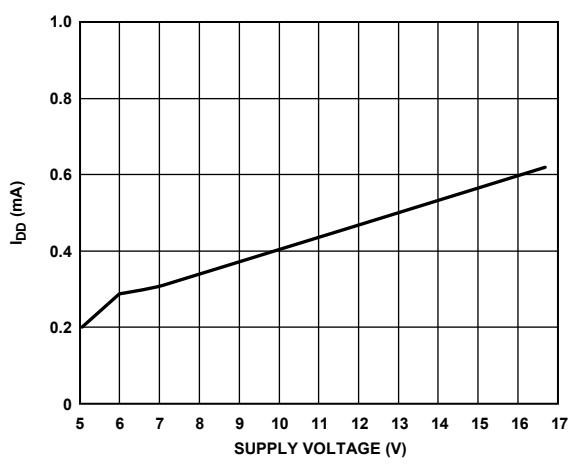


Figure 12. I_{DD} vs. Supply Voltage: Dual or Single Supply, $T_A = 25^\circ\text{C}$

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TERMINOLOGY

R_{ON}

Ohmic resistance between Terminal D and Terminal S.

R_{ON} Match

Difference between the R_{ON} of any two channels.

R_{ON} Drift

Change in R_{ON} vs. temperature.

I_s (Off)

Source terminal leakage current when the switch is off.

I_D (Off)

Drain terminal leakage current when the switch is off.

I_D (On)

Leakage current that flows from the closed switch into the body.

V_S (V_D)

Analog voltage on Terminal S or Terminal D.

C_S (Off)

Channel input capacitance for off condition.

C_D (Off)

Channel output capacitance for off condition.

C_{IN}

Digital input capacitance.

t_{ON} (EN)

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

t_{OFF} (EN)

Delay time between the 50% and 10% points of the digital input and switch off condition.

t_{TRANSITION}

Delay time between the 50% and 90% points of the digital inputs and switch on condition when switching from one address state to another.

t_{OPEN}

Off time measured between 50% points of both switches when switching from one address state to another.

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.

V_{DD}

Most positive voltage supply.

V_{SS}

Most negative voltage supply.

I_{DD}

Positive supply current.

I_{SS}

Negative supply current.

TIMING

Figure 13 shows the timing sequence for latching the switch address and enable inputs. The latches are level sensitive; therefore, while \overline{WR} is held low, the latches are transparent and the switches respond to the address and enable inputs. This input data is latched on the rising edge of \overline{WR} .

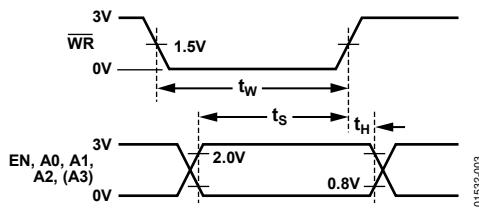


Figure 13. Timing Sequence

Figure 14 shows the reset pulse width, t_{RS} , and reset turn-off time, $t_{OFF}(\overline{RS})$.

Note that all digital input signal rise and fall times are measured from 10% to 90% of 3 V, $t_R = t_F = 20$ ns.

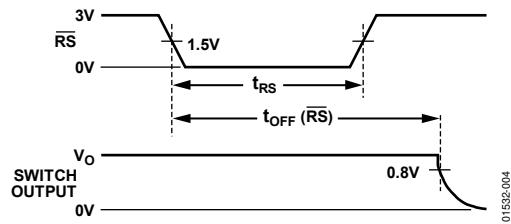


Figure 14. Reset Pulse

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TEST CIRCUITS

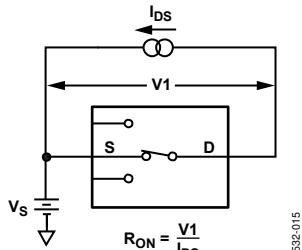


Figure 15. R_{ON}

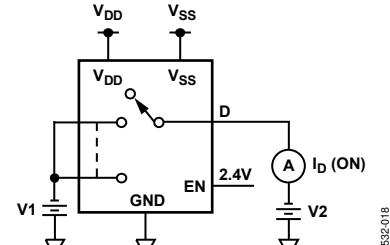


Figure 18. $I_D (\text{On})$

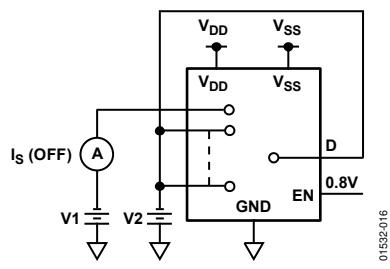


Figure 16. $I_S (\text{Off})$

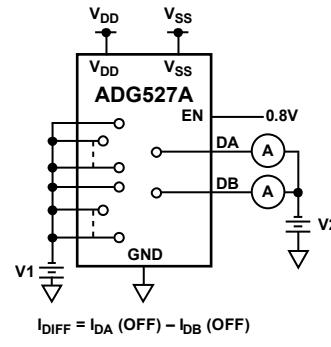


Figure 19. I_{DIFF}

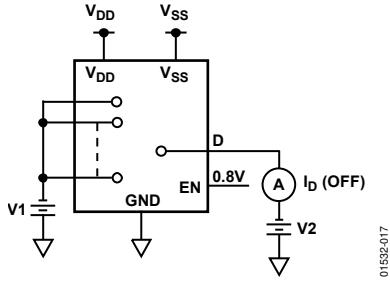


Figure 17. $I_D (\text{Off})$

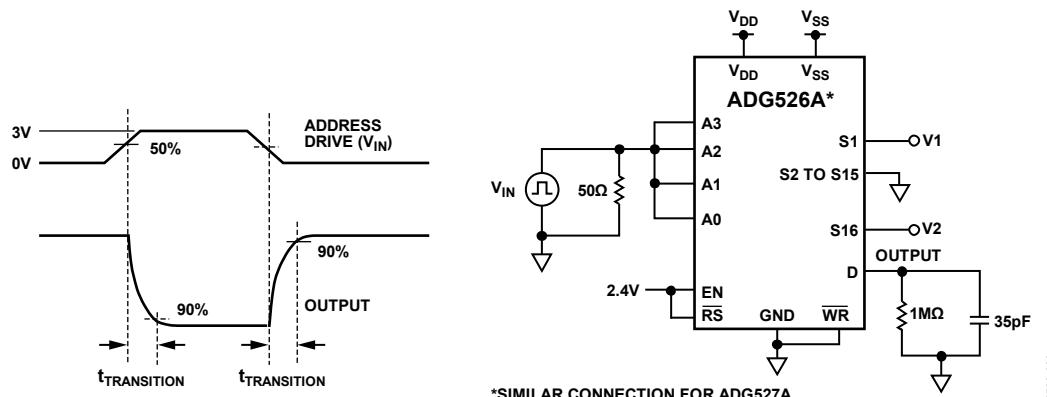


Figure 20. Switching Time of Multiplexer, $t_{TRANSITION}$

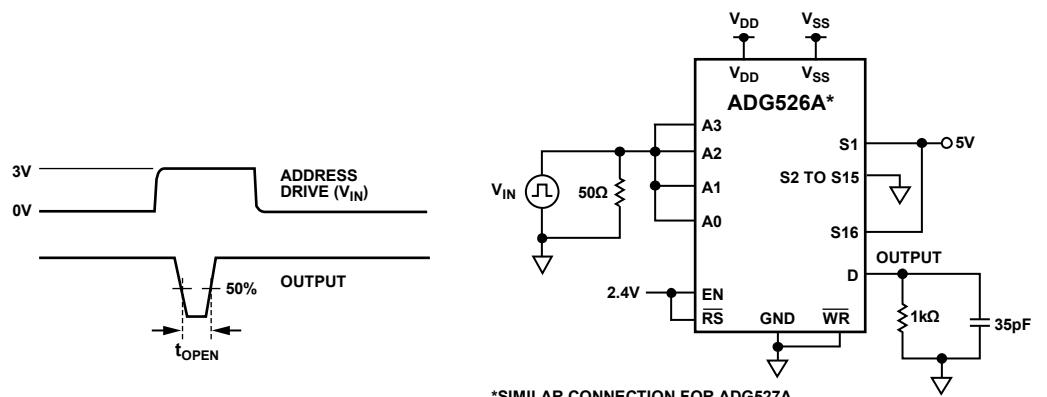


Figure 21. Break-Before-Make Delay, t_{OPEN}

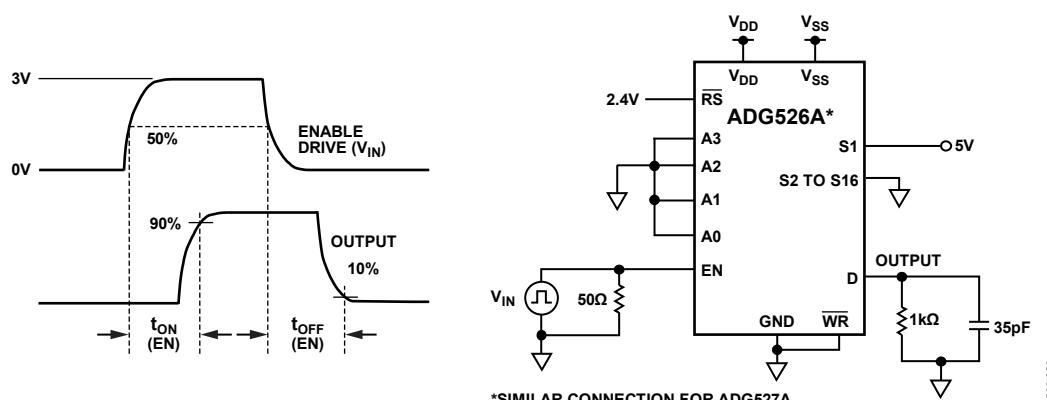
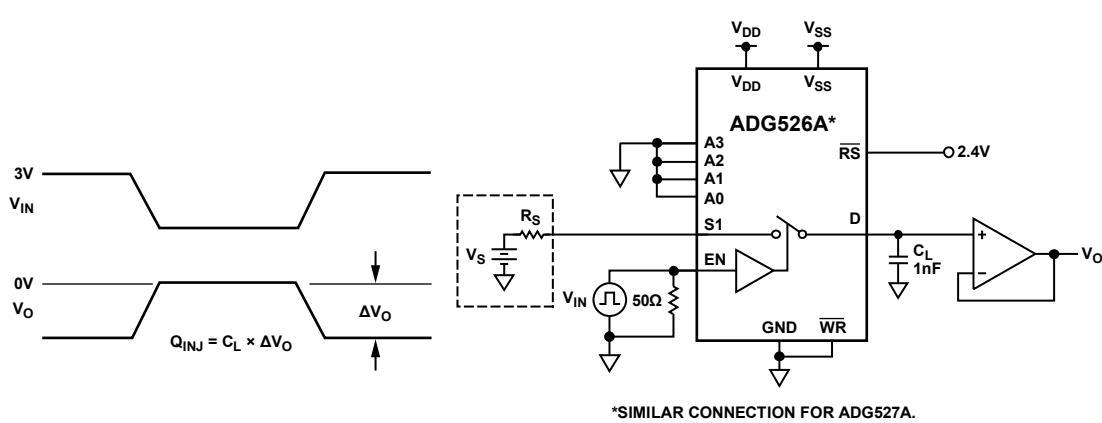
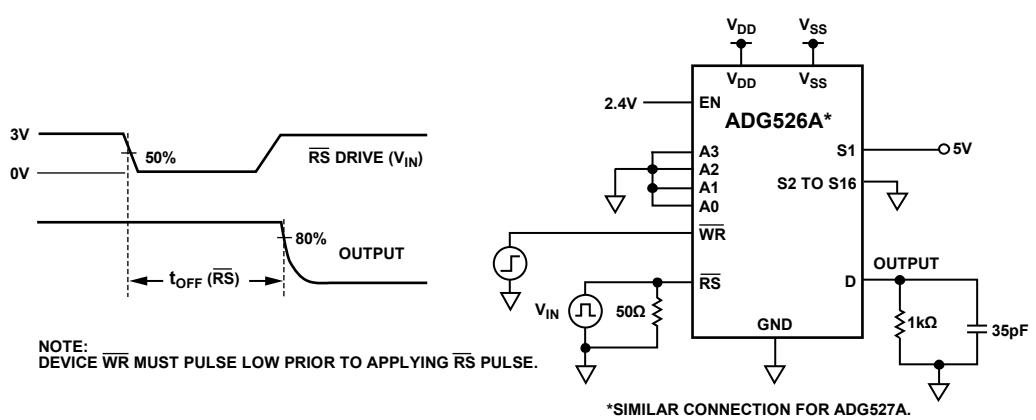
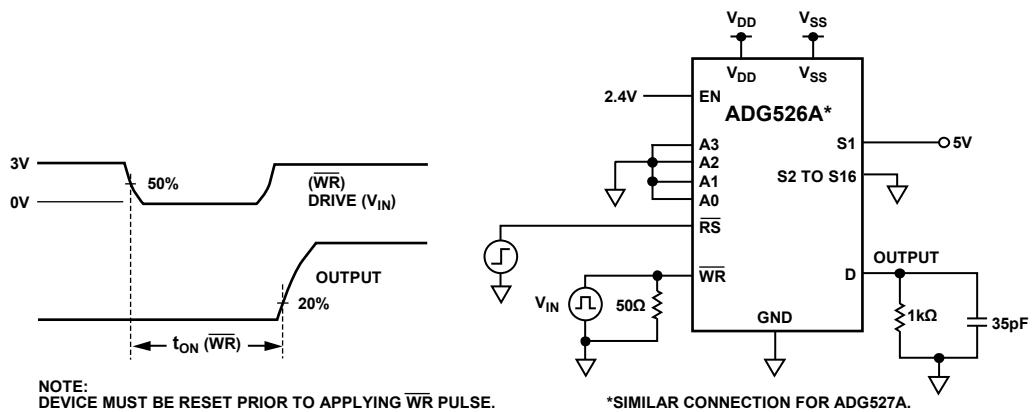
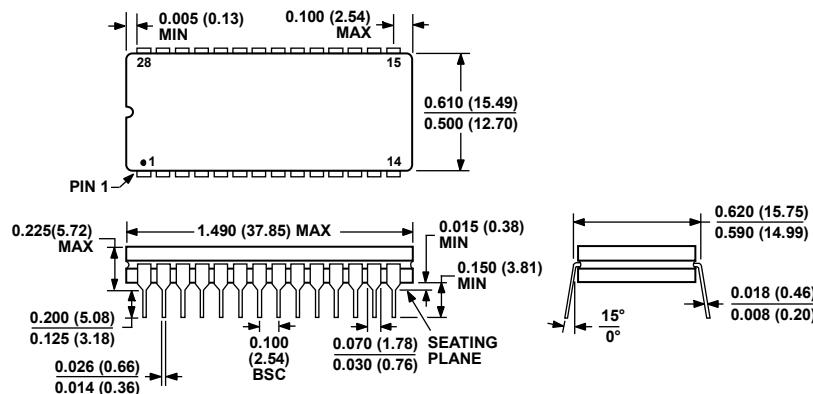


Figure 22. Enable Delay, $t_{ON}(EN)$ $t_{OFF}(EN)$

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OUTLINE DIMENSIONS



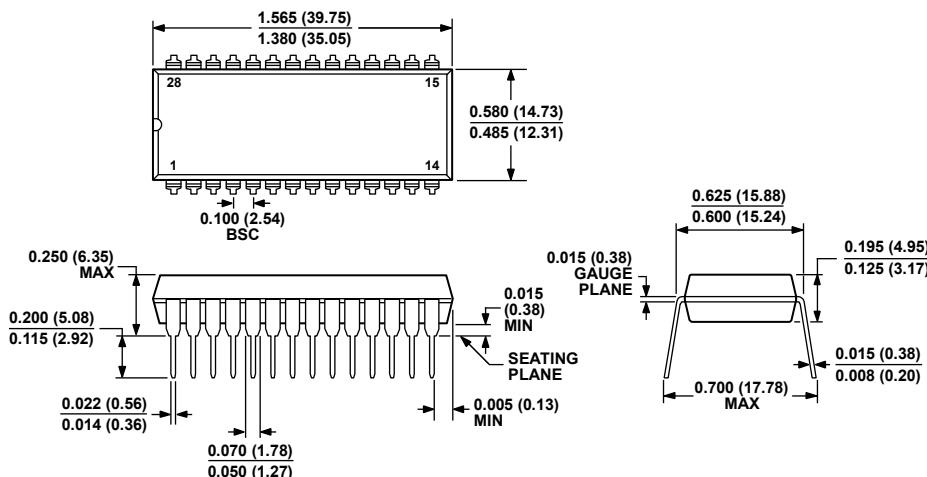
CONTROLLING DIMENSIONS ARE IN INCHES; MILLIMETER DIMENSIONS
(IN PARENTHESES) ARE ROUNDED-OFF INCH EQUIVALENTS FOR
REFERENCE ONLY AND ARE NOT APPROPRIATE FOR USE IN DESIGN.

030106-A

Figure 26. 28-Lead Ceramic Dual In-Line Package [CERDIP]

(Q-28)

Dimensions shown in inches and (millimeters)



COMPLIANT TO JEDEC STANDARDS MS-011

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.
CORNER LEADS MAY BE CONFIGURED AS WHOLE LEADS.

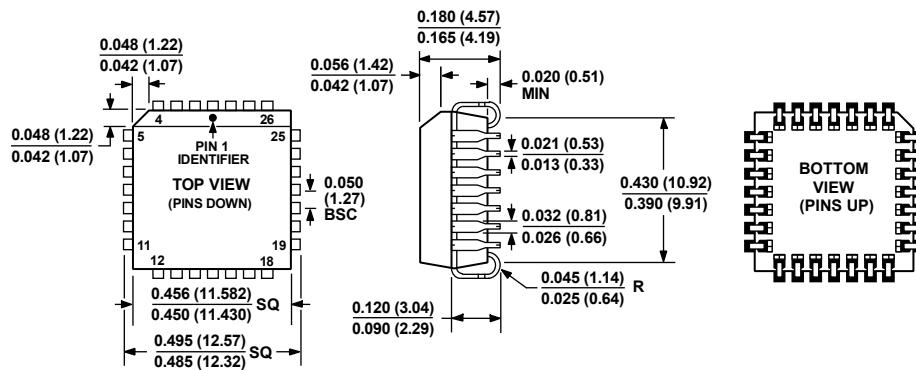
070106-A

Figure 27. 28-Lead Plastic Dual In-Line Package [PDIP]

(N-28)

Dimensions shown in inches and (millimeters)

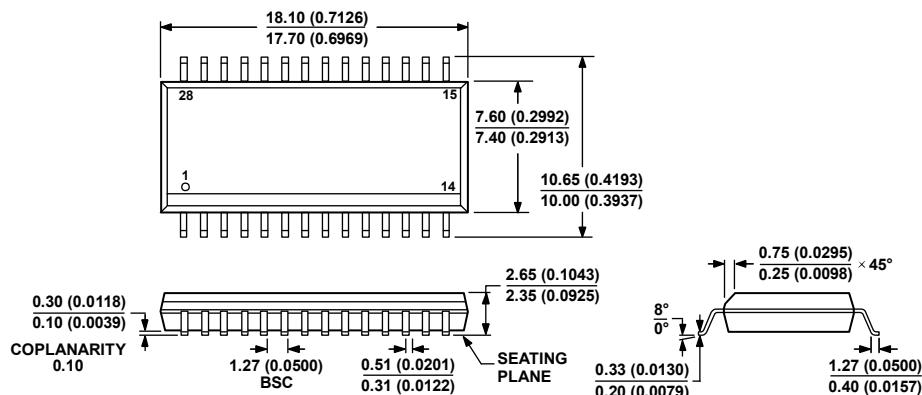
ADG526A/ADG527A



COMPLIANT TO JEDEC STANDARDS MO-047-AB
 CONTROLLING DIMENSIONS ARE IN INCHES; MILLIMETER DIMENSIONS
 (IN PARENTHESES) ARE ROUNDED-OFF INCH EQUIVALENTS FOR
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042508-A

Figure 28. 28-Lead Plastic Leaded Chip Carrier [PLCC]
 (P-28A)
 Dimensions shown in inches and (millimeters)



COMPLIANT TO JEDEC STANDARDS MS-013-AE
 CONTROLLING DIMENSIONS ARE IN MILLIMETERS; INCH DIMENSIONS
 (IN PARENTHESES) ARE ROUNDED-OFF MILLIMETER EQUIVALENTS FOR
 REFERENCE ONLY AND ARE NOT APPROPRIATE FOR USE IN DESIGN.

060706-A

Figure 29. 28-Lead Standard Small Outline Package [SOIC] Wide Body
 (RW-28)
 Dimensions shown in millimeters and (inches)

ORDERING GUIDE

Model	Temperature Range	Package Description	Package Option
ADG526AKN	–40°C to +85°C	28-Lead PDIP	N-28
ADG526AKNZ ¹	–40°C to +85°C	28-Lead PDIP	N-28
ADG526AKR	–40°C to +85°C	28-Lead SOIC	RW-28
ADG526AKR-REEL	–40°C to +85°C	28-Lead SOIC	RW-28
ADG526AKRZ ¹	–40°C to +85°C	28-Lead SOIC	RW-28
ADG526AKRZ-REEL ¹	–40°C to +85°C	28-Lead SOIC	RW-28
ADG526AKP	–40°C to +85°C	28-Lead PLCC	P-28A
ADG526AKP-REEL	–40°C to +85°C	28-Lead PLCC	P-28A
ADG526AKPZ ¹	–40°C to +85°C	28-Lead PLCC	P-28A
ADG526AKPZ-REEL ¹	–40°C to +85°C	28-Lead PLCC	P-28A
ADG526ATQ	–55°C to +125°C	28-Lead CERDIP	Q-28
ADG526ABQ	–40°C to +85°C	28-Lead CERDIP	Q-28
ADG526ATCHIPS			DIE
ADG527AKN	–40°C to +85°C	28-Lead PDIP	N-28
ADG527AKNZ ¹	–40°C to +85°C	28-Lead PDIP	N-28
ADG527AKR	–40°C to +85°C	28-Lead SOIC	RW-28
ADG527AKR-REEL	–40°C to +85°C	28-Lead SOIC	RW-28
ADG527AKRZ ¹	–40°C to +85°C	28-Lead SOIC	RW-28
ADG527AKP	–40°C to +85°C	28-Lead PLCC	P-28A
ADG527AKPZ ¹	–40°C to +85°C	28-Lead PLCC	P-28A

¹ Z = RoHS Compliant Part, # denotes RoHS complaint product, may be top or bottom marked.

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NOTES

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D01532-0-6/08(C)



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