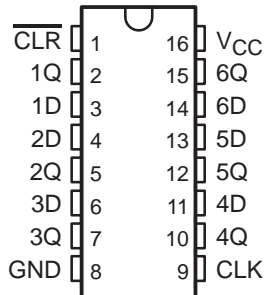


SN54ALS174, SN54ALS175, SN54AS174, SN54AS175B SN74ALS174, SN74ALS175, SN74AS174, SN74AS175B HEX/QUADRUPLE D-TYPE FLIP-FLOPS WITH CLEAR

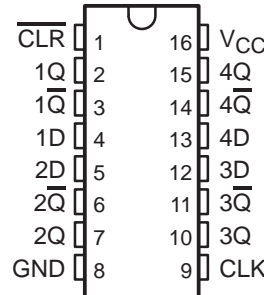
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- 'ALS174 and 'AS174 Contain Six Flip-Flops With Single-Rail Outputs
- 'ALS175 and 'AS175B Contain Four Flip-Flops With Double-Rail Outputs
- Buffered Clock and Direct-Clear Inputs
- Applications Include:
 - Buffer/Storage Registers
 - Shift Registers
 - Pattern Generators
- Fully Buffered Outputs for Maximum Isolation From External Disturbances ('AS Only)
- Package Options Include Plastic Small-Outline (D) Packages, Ceramic Chip Carriers (FK), and Standard Plastic (N) and Ceramic (J) 300-mil DIPs

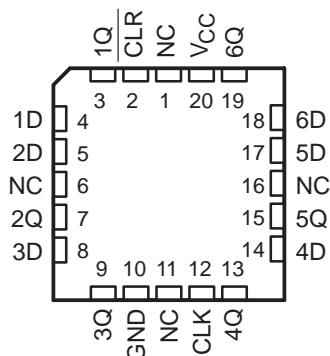
SN54ALS174, SN54AS174 . . . J PACKAGE
SN74ALS174, SN74AS174 . . . D OR N PACKAGE
(TOP VIEW)



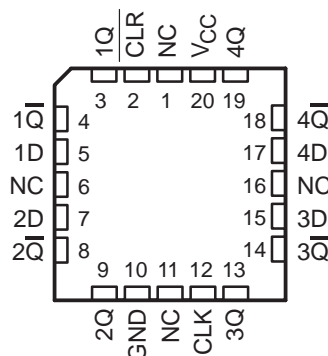
SN54ALS175, SN54AS175B . . . J PACKAGE
SN74ALS175, SN74AS175B . . . D OR N PACKAGE
(TOP VIEW)



SN54ALS174, SN54AS174 . . . FK PACKAGE
(TOP VIEW)



SN54ALS175A, SN54AS175B . . . FK PACKAGE
(TOP VIEW)



NC – No internal connection

description

These positive-edge-triggered flip-flops utilize TTL circuitry to implement D-type flip-flop logic. All have a direct-clear ($\overline{\text{CLR}}$) input. The 'ALS175 and 'AS175B feature complementary outputs from each flip-flop.

Information at the data (D) inputs meeting the setup-time requirements is transferred to the outputs on the positive-going edge of the clock pulse. Clock triggering occurs at a particular voltage level and is not directly related to the transition time of the positive-going pulse. When the clock (CLK) input is at either the high or low level, the D-input signal has no effect at the output.



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 **TEXAS
INSTRUMENTS**

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SN54ALS174, SN54ALS175, SN54AS174, SN54AS175B SN74ALS174, SN74ALS175, SN74AS174, SN74AS175B HEX/QUADRUPLE D-TYPE FLIP-FLOPS WITH CLEAR

SDAS207D - APRIL 1982 - REVISED MAY 1996

description (continued)

These circuits are fully compatible for use with most TTL circuits.

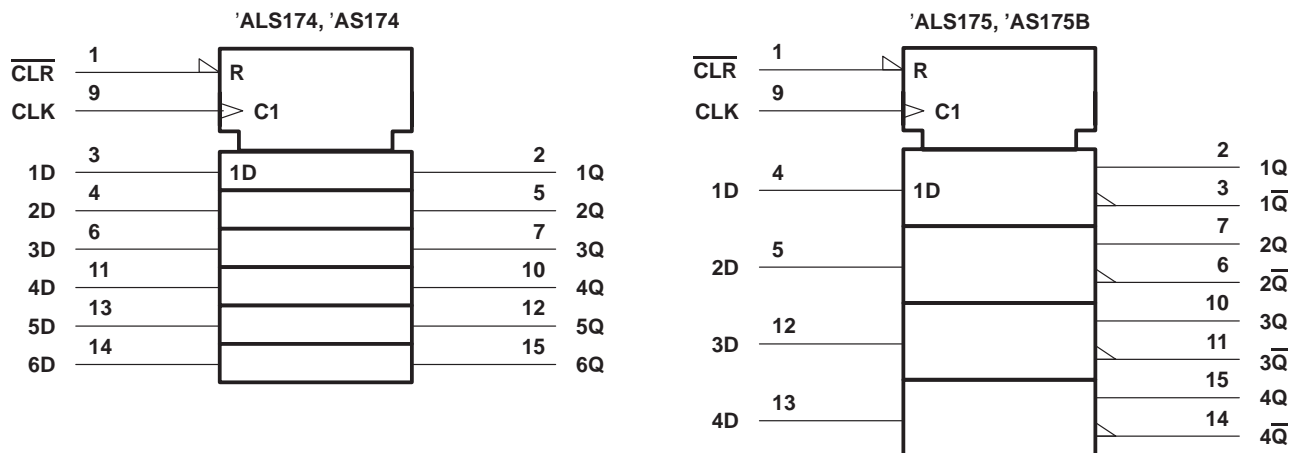
The SN54ALS174, SN54ALS175, SN54AS174, and SN54AS175B are characterized for operation over the full military temperature range of -55°C to 125°C . The SN74ALS174, SN74ALS175, SN74AS174, and SN74AS175B are characterized for operation from 0°C to 70°C .

FUNCTION TABLE
(each flip-flop)

INPUTS			OUTPUTS	
CLR	CLK	D	Q	\bar{Q}^{\dagger}
L	X	X	L	H
H	\uparrow	H	H	L
H	\uparrow	L	L	H
H	L	X	Q_0	\bar{Q}_0

\dagger 'ALS175 and 'AS175B only

logic symbols \ddagger

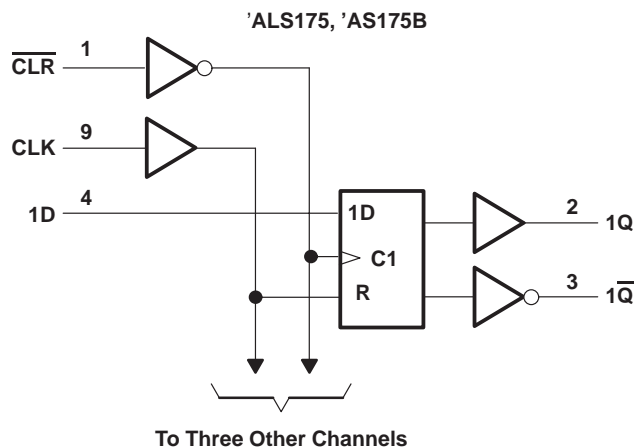
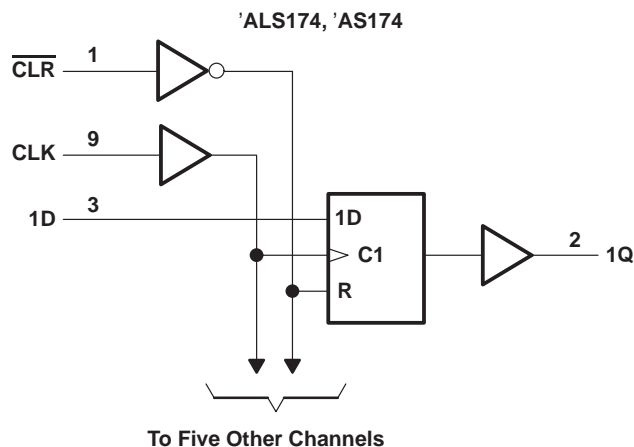


\ddagger These symbols are in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12. Pin numbers shown are for the D, J, and N packages.

SN54ALS174, SN54ALS175, SN54AS174, SN54AS175B SN74ALS174, SN74ALS175, SN74AS174, SN74AS175B HEX/QUADRUPLE D-TYPE FLIP-FLOPS WITH CLEAR

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logic diagrams (positive logic)



Pin numbers shown are for the D, J, and N packages.

absolute maximum ratings over operating free-air temperature range (unless otherwise noted)†

Supply voltage, V_{CC}	7 V
Input voltage, V_I	7 V
Operating free-air temperature range, T_A : SN54ALS174, SN54ALS175	-55°C to 125°C
SN74ALS174, SN74ALS175	0°C to 70°C
Storage temperature range, T_{stg}	-65°C to 150°C

† Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

recommended operating conditions

		SN54ALS174 SN54ALS175			SN74ALS174 SN74ALS175			UNIT		
		MIN	NOM	MAX	MIN	NOM	MAX			
V_{CC}	Supply voltage	4.5	5	5.5	4.5	5	5.5	V		
V_{IH}	High-level input voltage	2			2			V		
V_{IL}	Low-level input voltage			0.8			0.8	V		
I_{OH}	High-level output current			-0.4			-0.4	mA		
I_{OL}	Low-level output current			4			8	mA		
f_{clock}	Clock frequency	0		40	0		50	MHz		
t_w	Pulse duration	CLR low		15			10	ns		
		CLK high		12.5			10			
		CLK low		12.5			10			
t_{su}	Setup time before CLK↑	Data		15			10	ns		
		CLR inactive		8			6			
t_h	Hold time, data after CLK↑	0			0			ns		
T_A	Operating free-air temperature			-55		125		0	70	°C



**SN54ALS174, SN54ALS175, SN54AS174, SN54AS175B
SN74ALS174, SN74ALS175, SN74AS174, SN74AS175B
HEX/QUADRUPLE D-TYPE FLIP-FLOPS WITH CLEAR**

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electrical characteristics over recommended operating free-air temperature range (unless otherwise noted)

PARAMETER	TEST CONDITIONS		SN54ALS174 SN54ALS175			SN74ALS174 SN74ALS175			UNIT
			MIN	TYP†	MAX	MIN	TYP†	MAX	
V _{IK}	V _{CC} = 4.5 V, I _I = -18 mA		-1.5			-1.5			V
V _{OH}	V _{CC} = 4.5 V to 5.5 V, I _{OH} = -0.4 mA		V _{CC} -2			V _{CC} -2			V
V _{OL}	V _{CC} = 4.5 V	I _{OL} = 4 mA	0.25		0.4	0.25		0.4	V
		I _{OL} = 8 mA				0.35		0.5	
I _I	V _{CC} = 5.5 V, V _I = 7 V		0.1			0.1			mA
I _{IH}	V _{CC} = 5.5 V, V _I = 2.7 V		20			20			μA
I _{IL}	All others	V _{CC} = 5.5 V, V _I = 0.4 V	-0.1			-0.1			mA
	CLK		-0.15						
I _{O‡}	V _{CC} = 5.5 V, V _O = 2.25 V		-20	-112		-30	-112		mA
I _{CC}	'ALS174	V _{CC} = 5.5 V, See Note 1	11	19		11	19		mA
	'ALS175		8	14		9	14		

† All typical values are at V_{CC} = 5 V, T_A = 25°C.

‡ The output conditions have been chosen to produce a current that closely approximates one half of the true short-circuit output current, I_{OS}.

NOTE 1: I_{CC} is measured with D inputs and CLR grounded, and CLK at 4.5 V.

switching characteristics (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 4.5 V to 5.5 V, C _L = 50 pF, R _L = 500 Ω, T _A = MIN to MAX§				UNIT
			SN54ALS174 SN54ALS175		SN74ALS174 SN74ALS175		
			MIN	MAX	MIN	MAX	
f _{max}			40		50		MHz
t _{PLH}	$\overline{\text{CLR}}$	Any $\overline{\text{Q}}$ ('ALS175) Any Q	3	20	5	18	ns
t _{PHL}			5	30	8	23	
t _{PLH}	CLK	Any Q (or Q, 'ALS175)	3	20	3	15	ns
t _{PHL}			5	24	5	17	

§ For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.



**SN54ALS174, SN54ALS175, SN54AS174, SN54AS175B
SN74ALS174, SN74ALS175, SN74AS174, SN74AS175B
HEX/QUADRUPLE D-TYPE FLIP-FLOPS WITH CLEAR**

SDAS207D - APRIL 1982 - REVISED MAY 1996

absolute maximum ratings over operating free-air temperature range (unless otherwise noted)†

Supply voltage, V_{CC}	7 V
Input voltage, V_I	7 V
Operating free-air temperature range, T_A : SN54AS174, SN54AS175B	-55°C to 125°C
SN74AS174, SN74AS175B	0°C to 70°C
Storage temperature range, T_{stg}	-65°C to 150°C

† Stresses beyond those listed under “absolute maximum ratings” may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under “recommended operating conditions” is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

recommended operating conditions

		SN54AS174 SN54AS175B			SN74AS174 SN74AS175B			UNIT
		MIN	NOM	MAX	MIN	NOM	MAX	
V_{CC}	Supply voltage	4.5	5	5.5	4.5	5	5.5	V
V_{IH}	High-level input voltage	2			2			V
V_{IL}	Low-level input voltage			0.8			0.8	V
I_{OH}	High-level output current			-2			-2	mA
I_{OL}	Low-level output current			20			20	mA
f_{clock}^*	Clock frequency	0		100	0		100	MHz
t_w^*	Pulse duration	CLR low		5.5	5		ns	
		CLK high		4	4			
		CLK low	'AS174	6	6			
			'AS175B	5	5			
t_{su}^*	Setup time before CLK↑	Data	'AS174	4	4		ns	
			'AS175B	3	3			
		CLR inactive		6	6			
t_h^*	Hold time, data after CLK↑	1			1			ns
T_A	Operating free-air temperature	-55		125	0		70	°C

* On products compliant to MIL-STD-883, Class B, this parameter is based on characterization data but is not production tested.



**SN54ALS174, SN54ALS175, SN54AS174, SN54AS175B
SN74ALS174, SN74ALS175, SN74AS174, SN74AS175B
HEX/QUADRUPLE D-TYPE FLIP-FLOPS WITH CLEAR**

SDAS207D - APRIL 1982 - REVISED MAY 1996

electrical characteristics over recommended operating free-air temperature range (unless otherwise noted)

PARAMETER	TEST CONDITIONS	SN54AS174 SN54AS175B		SN74AS174 SN74AS175B		UNIT	
		MIN	TYP†	MAX	MIN		TYP†
V _{IK}	V _{CC} = 4.5 V, I _I = -18 mA			-1.2		-1.2	V
V _{OH}	V _{CC} = 4.5 V to 5.5 V, I _{OH} = -2 mA	V _{CC} -2		V _{CC} -2			V
V _{OL}	V _{CC} = 4.5 V, I _{OL} = 20 mA	0.35	0.5	0.35	0.5		V
I _I	V _{CC} = 5.5 V, V _I = 7 V		0.1		0.1		mA
I _{IH}	V _{CC} = 5.5 V, V _I = 2.7 V		20		20		μA
I _{IL}	V _{CC} = 5.5 V, V _I = 0.4 V		-0.5		-0.5		mA
I _O ‡	V _{CC} = 5.5 V, V _O = 2.25 V	-30	-112	-30	-112		mA
I _{CC}	V _{CC} = 5.5 V, See Note 2	'AS174		'AS174		mA	
		30	45	30	45		
		'AS175B		'AS175B			
		22.5	34	22.5	34		

† All typical values are at V_{CC} = 5 V, T_A = 25°C.

‡ The output conditions have been chosen to produce a current that closely approximates one half of the true short-circuit output current, I_{OS}.

NOTE 2: I_{CC} is measured with D inputs, CLR, and CLK grounded.

switching characteristics (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 4.5 V to 5.5 V, C _L = 50 pF, R _L = 500 Ω, T _A = MIN to MAX§				UNIT
			SN54AS174		SN74AS174		
			MIN	MAX	MIN	MAX	
f _{max} *			100		100		MHz
t _{PHL}	CLR	Any Q	5	15	5	14	ns
t _{PLH}	CLK	Any Q	3.5	9.5	3.5	8	ns
t _{PHL}			4.5	11.5	4.5	10	

* On products compliant to MIL-STD-883, Class B, these parameters are based on characterization data but are not production tested.

§ For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.

switching characteristics (see Figure 1)

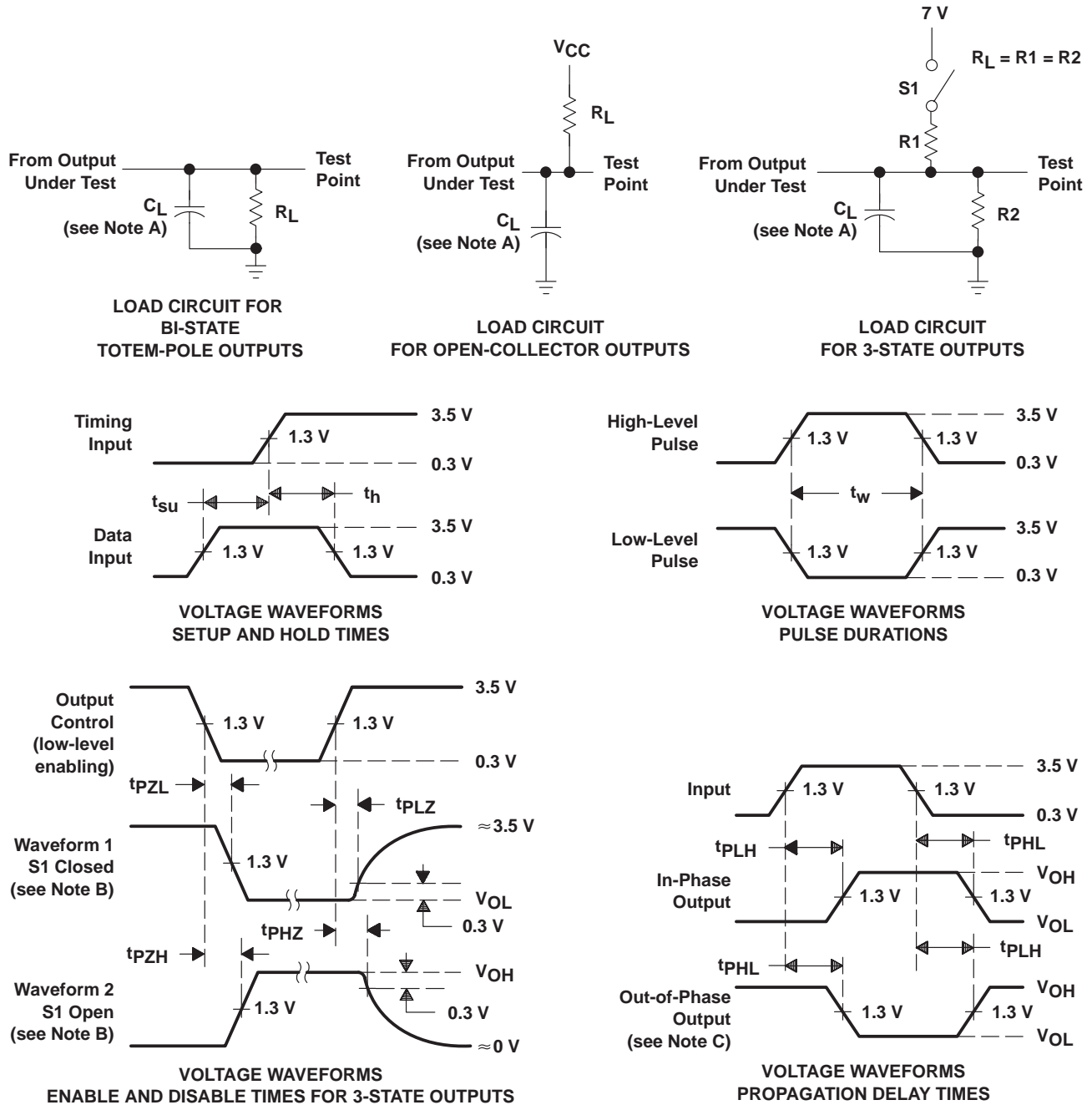
PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 4.5 V to 5.5 V, C _L = 50 pF, R _L = 500 Ω, T _A = MIN to MAX§				UNIT
			SN54AS175B		SN74AS175B		
			MIN	MAX	MIN	MAX	
f _{max} *			100		100		MHz
t _{PLH}	CLR	Any Q or Q̄	4	10	4	9	ns
t _{PHL}			4.5	15	4.5	13	
t _{PLH}	CLK	Any Q or Q̄	3	8.5	3	7.5	ns
t _{PHL}			3	11	3	10	

* On products compliant to MIL-STD-883, Class B, this parameter is based on characterization data but is not production tested.

§ For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.



PARAMETER MEASUREMENT INFORMATION
 SERIES 54ALS/74ALS AND 54AS/74AS DEVICES



- NOTES: A. C_L includes probe and jig capacitance.
 B. Waveform 1 is for an output with internal conditions such that the output is low except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high except when disabled by the output control.
 C. When measuring propagation delay items of 3-state outputs, switch S1 is open.
 D. All input pulses have the following characteristics: $PRR \leq 1$ MHz, $t_r = t_f = 2$ ns, duty cycle = 50%.
 E. The outputs are measured one at a time with one transition per measurement.

Figure 1. Load Circuits and Voltage Waveforms

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SN54ALS174, Hex D-type Flip-Flops With Clear

Device Status: Active

- > [Description](#)
- > [Features](#)
- > [Datasheets](#)
- > [Pricing/Samples/Availability](#)
- > [Application Notes](#)
- > [Related Documents](#)
- > [Training](#)

Parameter Name	SN54ALS174
Voltage Nodes (V)	5
Vcc range (V)	4.5 to 5.5
Input Level	TTL
Output Level	TTL
Output	2S
No. of Bits	6

Description

These positive-edge-triggered flip-flops utilize TTL circuitry to implement D-type flip-flop logic. All have a direct-clear () input. The 'ALS175 and 'AS175B feature complementary outputs from each flip-flop.

Information at the data (D) inputs meeting the setup-time requirements is transferred to the outputs on the positive-going edge of the clock pulse. Clock triggering occurs at a particular voltage level and is not directly related to the transition time of the positive-going pulse. When the clock (CLK) input is at either the high or low level, the D-input signal has no effect at the output.

These circuits are fully compatible for use with most TTL circuits.

The SN54ALS174, SN54ALS175, SN54AS174, and SN54AS175B are characterized for operation over the full military temperature range of -55°C to 125°C. The SN74ALS174, SN74ALS175, SN74AS174, and SN74AS175B are characterized for operation from 0°C to 70°C.

Features

- 'ALS174 and 'AS174 Contain Six Flip-Flops With Single-Rail Outputs
- 'ALS175 and 'AS175B Contain Four Flip-Flops With Double-Rail Outputs
- Buffered Clock and Direct-Clear Inputs
- Applications Include:
 - Buffer/Storage Registers
 - Shift Registers
 - Pattern Generators
- Fully Buffered Outputs for Maximum Isolation From External Disturbances ('AS Only)
- Package Options Include Plastic Small-Outline (D) Packages, Ceramic Chip Carriers (FK), and Standard Plastic (N) and Ceramic (J) 300-mil DIPs

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Datasheets

Full datasheet in Acrobat PDF: [sdas207d.pdf](#) (127 KB)

Full datasheet in Zipped PostScript: [sdas207d.psz](#) (123 KB)

Pricing/Samples/Availability

<u>Orderable Device</u>	<u>Package</u>	<u>Pins</u>	<u>Temp (°C)</u>	<u>Status</u>	<u>Price/unit USD (100-999)</u>	<u>Pack Qty</u>	<u>DSCC Number</u>	<u>Availability / Samples</u>
JM38510/37201B2A	<u>FK</u>	20	-55 TO 125	ACTIVE	13.61	1		Check stock or order
JM38510/37201BEA	<u>J</u>	16	-55 TO 125	ACTIVE	8.02	1		Check stock or order
SN54ALS174J	<u>J</u>	16	-55 TO 125	ACTIVE	2.59	1		Check stock or order
SNJ54ALS174FK	<u>FK</u>	20	-55 TO 125	ACTIVE	10.44	1	83019012A	Check stock or order
SNJ54ALS174J	<u>J</u>	16	-55 TO 125	ACTIVE	3.07	1	8301901EA	Check stock or order
SNJ54ALS174W	<u>W</u>	16	-55 TO 125	ACTIVE	9.60	1	8301901FA	Check stock or order

Application Reports

View Application Reports for Digital Logic

- [Advanced Schottky \(ALS and AS\) Logic Families \(SDAA010 - Updated: 08/01/1995\)](#)
- [Bus-Interface Devices With Output-Damping Resistors Or Reduced-Drive Outputs \(SCBA012A - Updated: 08/01/1997\)](#)
- [Designing With Logic \(SDYA009C - Updated: 06/01/1997\)](#)
- [Input And Output Characteristics Of Digital Integrated Circuits \(SDYA010 - Updated: 10/01/1996\)](#)
- [Live Insertion \(SDYA012 - Updated: 10/01/1996\)](#)

Related Documents

- [Documentation Rules \(SAP\) And Ordering Information \(SZZU001B, 4 KB - Updated: 05/06/1999\)](#)
- [Logic Selection Guide Second Half 2000 \(SDYU001N, 5035 KB - Updated: 04/17/2000\)](#)
- [MicroStar Junior BGA Design Summary \(SCET004, 284 KB - Updated: 07/28/2000\)](#)
- [More Power In Less Space - Technical Article \(SCAU001A, 850 KB - Updated: 03/01/1996\)](#)

Table Data Updated on: 9/7/2000

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SN54ALS175, Quadruple D-type Flip-Flops With Clear

Device Status: Active

- > [Description](#)
- > [Features](#)
- > [Datasheets](#)
- > [Pricing/Samples/Availability](#)
- > [Application Notes](#)
- > [Related Documents](#)
- > [Training](#)

Parameter Name	SN54ALS175
Voltage Nodes (V)	5
Vcc range (V)	4.5 to 5.5
Input Level	TTL
Output Level	TTL
Output	2S
No. of Bits	4

Description

These positive-edge-triggered flip-flops utilize TTL circuitry to implement D-type flip-flop logic. All have a direct-clear () input. The 'ALS175 and 'AS175B feature complementary outputs from each flip-flop.

Information at the data (D) inputs meeting the setup-time requirements is transferred to the outputs on the positive-going edge of the clock pulse. Clock triggering occurs at a particular voltage level and is not directly related to the transition time of the positive-going pulse. When the clock (CLK) input is at either the high or low level, the D-input signal has no effect at the output.

These circuits are fully compatible for use with most TTL circuits.

The SN54ALS174, SN54ALS175, SN54AS174, and SN54AS175B are characterized for operation over the full military temperature range of -55°C to 125°C. The SN74ALS174, SN74ALS175, SN74AS174, and SN74AS175B are characterized for operation from 0°C to 70°C.

Features

- 'ALS174 and 'AS174 Contain Six Flip-Flops With Single-Rail Outputs
- 'ALS175 and 'AS175B Contain Four Flip-Flops With Double-Rail Outputs
- Buffered Clock and Direct-Clear Inputs
- Applications Include:
 - Buffer/Storage Registers
 - Shift Registers
 - Pattern Generators
- Fully Buffered Outputs for Maximum Isolation From External Disturbances ('AS Only)
- Package Options Include Plastic Small-Outline (D) Packages, Ceramic Chip Carriers (FK), and Standard Plastic (N) and Ceramic (J) 300-mil DIPs

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Full datasheet in Zipped PostScript: [sdas207d.psz](#) (123 KB)

Pricing/Samples/Availability

<u>Orderable Device</u>	<u>Package</u>	<u>Pins</u>	<u>Temp (°C)</u>	<u>Status</u>	<u>Price/unit USD (100-999)</u>	<u>Pack Qty</u>	<u>DSCC Number</u>	<u>Availability / Samples</u>
JM38510/37202B2A	<u>FK</u>	20	-55 TO 125	ACTIVE	13.61	1		Check stock or order
JM38510/37202BEA	<u>J</u>	16	-55 TO 125	ACTIVE	8.02	1		Check stock or order
SN54ALS175J	<u>J</u>	16	-55 TO 125	ACTIVE	2.59	1		Check stock or order
SNJ54ALS175FK	<u>FK</u>	20	-55 TO 125	ACTIVE	10.44	1	83019022A	Check stock or order
SNJ54ALS175J	<u>J</u>	16	-55 TO 125	ACTIVE	3.07	1	8301902EA	Check stock or order
SNJ54ALS175W	<u>W</u>	16	-55 TO 125	ACTIVE	9.60	1	8301902FA	Check stock or order

Application Reports

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- [Live Insertion \(SDYA012 - Updated: 10/01/1996\)](#)

Related Documents

- [Documentation Rules \(SAP\) And Ordering Information \(SZZU001B, 4 KB - Updated: 05/06/1999\)](#)
- [Logic Selection Guide Second Half 2000 \(SDYU001N, 5035 KB - Updated: 04/17/2000\)](#)
- [MicroStar Junior BGA Design Summary \(SCET004, 284 KB - Updated: 07/28/2000\)](#)
- [More Power In Less Space - Technical Article \(SCAU001A, 850 KB - Updated: 03/01/1996\)](#)

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