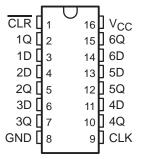
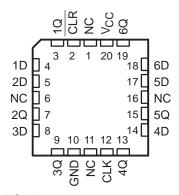
- 'ALS174 and 'AS174 Contain Six Flip-Flops With Single-Rail Outputs
- 'ALS175 and 'AS175B Contain Four Flip-Flops With Double-Rail Outputs
- Buffered Clock and Direct-Clear Inputs
- Applications Include:
 - Buffer/Storage Registers
 - Shift Registers
 - Pattern Generators

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



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

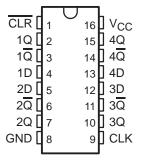


NC - No internal connection

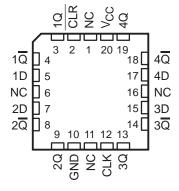
Fully Buffered Outputs for Maximum Isolation From External Disturbances ('AS Only)

 Package Options Include Plastic Small-Outline (D) Packages, Ceramic Chip Carriers (FK), and Standard Plastic (N) and Ceramic (J) 300-mil DIPs

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



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



description

These positive-edge-triggered flip-flops utilize TTL circuitry to implement D-type flip-flop logic. All have a direct-clear (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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description (continued)

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

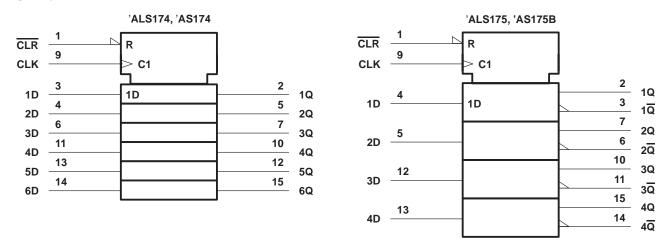
The SN54ALS174, SN54ALS175, SN54AS174, and SN54AS175B are characterized for operation over the full military temperature range of –55°C to 125°C. The SN74ALS174, SN74ALS175, SN74AS174, and SN74AS175B are characterized for operation from 0°C to 70°C.

FUNCTION TABLE (each flip-flop)

	INPUTS			OUTPUTS		
CLR	CLK	D	Q	<u>Q</u> †		
L	Х	Χ	L	Н		
Н	\uparrow	Н	Н	L		
Н	\uparrow	L	L	Н		
Н	L	Χ	Q ₀	\overline{Q}_0		

T'ALS175 and 'AS175B only

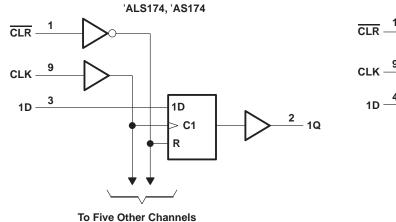
logic symbols‡

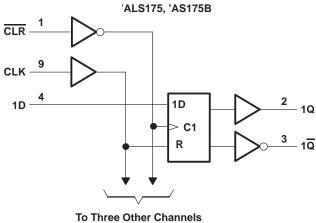


[‡] These symbols are in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12. Pin numbers shown are for the D, J, and N packages.



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	
SN74ALS174, SN74ALS175	
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

				54ALS1 54ALS1		_	74ALS1 74ALS1		UNIT
			MIN	NOM	MAX	MIN	NOM	MAX	
Vcc	Supply voltage		4.5	5	5.5	4.5	5	5.5	V
VIH	High-level input voltage		2			2			V
V _{IL}	Low-level input voltage				0.8			0.8	V
ІОН	High-level output current				-0.4			-0.4	mA
loL	Low-level output current				4			8	mA
fclock	Clock frequency		0		40	0		50	MHz
		CLR low	15			10			
t _W	Pulse duration	CLK high	12.5			10			ns
		CLK low	12.5			10			
	Outer the before OUK	Data	15			10			no
t _{su}	Setup time before CLK↑	CLR inactive	8			6			ns
th	Hold time, data after CLK↑		0			0			ns
TA	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)

PA	PARAMETER TEST CONDITIONS		SN54ALS174 SN54ALS175			SN74ALS174 SN74ALS175			UNIT		
			MIN	TYP [†]	MAX	MIN	TYP [†]	MAX			
٧ıK		$V_{CC} = 4.5 \text{ V},$	I _I = -18 mA			-1.5			-1.5	V	
Vон		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V},$	$I_{OH} = -0.4 \text{ mA}$	V _{CC} -2			V _{CC} -2			V	
\/o:		V _{CC} = 4.5 V	$I_{OL} = 4 \text{ mA}$		0.25	0.4		0.25	0.4	V	
VOL		VCC = 4.5 V	$I_{OL} = 8 \text{ mA}$					0.35	0.5	V	
Ц		$V_{CC} = 5.5 \text{ V},$	$V_I = 7 V$			0.1			0.1	mA	
lіН		$V_{CC} = 5.5 \text{ V},$	V _I = 2.7 V			20			20	μΑ	
1	All others	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	V _I = 0.4 V			-0.1			-0.1	mA	
l IIL	CLK	V _{CC} = 5.5 V,	V = 0.4 V			-0.15				IIIA	
lo [‡]		V _{CC} = 5.5 V,	V _O = 2.25 V	-20		-112	-30		-112	mA	
laa	'ALS174	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Con Note 4		11	19		11	19	mA	
Icc	'ALS175	V _{CC} = 5.5 V,	See Note 1		8	14		9	14	IIIA	

[†] All typical values are at $V_{CC} = 5 \text{ V}$, $T_A = 25^{\circ}\text{C}$.

switching characteristics (see Figure 1)

PARAMETER	FROM	то	C _I	_ = 50 pF _ = 500 £		',	UNIT	
	(INPUT)	(OUTPUT)	SN54ALS174 SN54ALS175		SN74ALS174 SN74ALS175			
			MIN	MAX	MIN	MAX		
fmax			40		50		MHz	
t _{PLH}	CLR	Any Q ('ALS175)	3	20	5	18	ns	
^t PHL	CLR	Any Q	5	30	8	23	115	
^t PLH	CLK	Any Q	3	20	3	15	ns	
^t PHL	OLK	(or Q, 'ALS175)	5	24	5	17	TIS	

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



[‡] 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.

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

recommended operating conditions

					SN54AS174 SN54AS175B		SN74AS174 SN74AS175B			UNIT
				MIN	NOM	MAX	MIN	NOM	MAX	
Vcc	CC Supply voltage		4.5	5	5.5	4.5	5	5.5	V	
VIH	High-level input voltage		2			2			V	
V _{IL}	Low-level input voltage					0.8			0.8	V
IOH	High-level output current					-2			-2	mA
loL	Low-level output current					20			20	mA
fclock*	c* Clock frequency		0		100	0		100	MHz	
		CLR low		5.5			5			
. *	Pulse duration	CLK high		4			4			ns
t _W *	ruise duration	CLK low	'AS174	6			6			115
		CLK IOW	'AS175B	5			5			
		Data	'AS174	4			4			
t _{su} *	Setup time before CLK↑	Data	'AS175B	3			3			ns
		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.

[†] 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.

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)

PA	RAMETER	METER TEST CONDITIONS			SN54AS174 SN54AS175B		SN74AS174 SN74AS175B			UNIT
					TYP [†]	MAX	MIN	TYP [†]	MAX	
VIK		$V_{CC} = 4.5 \text{ V},$	I _I = -18 mA			-1.2			-1.2	V
Vон		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V},$	$I_{OH} = -2 \text{ mA}$	V _{CC} -2			V _{CC} -2			V
VOL		$V_{CC} = 4.5 \text{ V},$	$I_{OL} = 20 \text{ mA}$		0.35	0.5		0.35	0.5	V
l _l		$V_{CC} = 5.5 \text{ V},$	V _I = 7 V			0.1			0.1	mA
lіН		$V_{CC} = 5.5 \text{ V},$	V _I = 2.7 V			20			20	μΑ
IIL		$V_{CC} = 5.5 \text{ V},$	V _I = 0.4 V			-0.5			-0.5	mA
lo [‡]		V _{CC} = 5.5 V,	V _O = 2.25 V	-30		-112	-30		-112	mA
loo	'AS174	V _{CC} = 5.5 V,	See Note 2		30	45		30	45	mA
Icc	'AS175B	VCC = 5.5 V,			22.5	34		22.5	34	IIIA

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

switching characteristics (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	C _l	CC = 4.5 _ = 50 pF _ = 500 Ω _ = MIN t	<u>),</u>	,	UNIT
		l '	SN54AS174		SN74AS174		
			MIN	MAX	MIN	MAX	
fmax*			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}	OLK	Ally Q	4.5	11.5	4.5	10	115

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

switching characteristics (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	C _l Rı	_ = 50 pF _ = 500 £		,	UNIT
			SN54AS175B		SN74AS175B		
			MIN	MAX	MIN	MAX	
f _{max} *			100		100		MHz
t _{PLH}	CLR	A	4	10	4	9	ns
t _{PHL}	CLR	Any Q or $\overline{\mathbb{Q}}$	4.5	15	4.5	13	115
t _{PLH}	CLK	Any Q or $\overline{\mathbb{Q}}$	3	8.5	3	7.5	ns
t _{PHL}	OLK	Ally Q OI Q	3	11	3	10	115

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

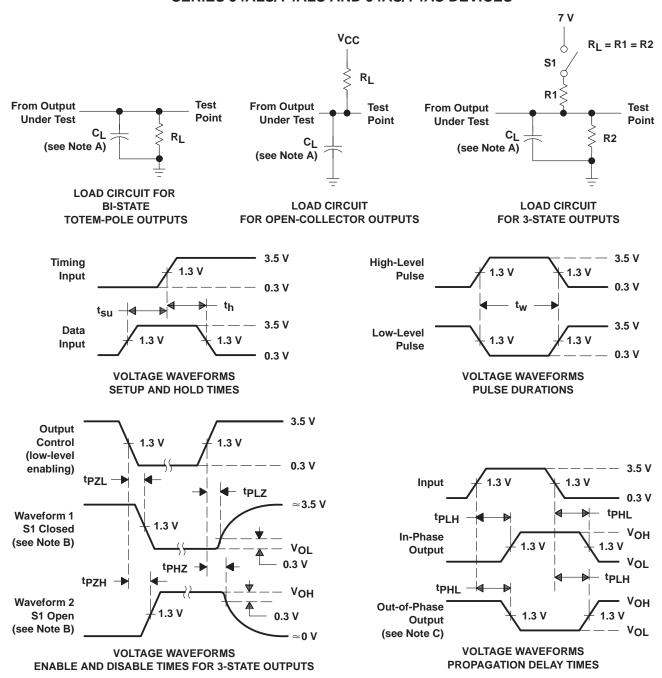


[‡] The output conditions have been chosen to produce a current that closely approximates one half of the true short-circuit output current, I_{OS}. NOTE 2: I_{CC} is measured with D inputs, CLR, and CLK grounded.

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

[§] 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, $t_f = t_f = 2$ 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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PRICING/AVAILABILITY | APPLICATION NOTES |
RELATED DOCUMENTS

PRODUCT SUPPORT: TRAINING

SN74ALS174, Hex D-Type Positive-Edge-Triggered Flip-Flops With Clear

DEVICE STATUS: ACTIVE

PARAMETER NAME	SN74ALS174			
Voltage Nodes (V)	5			
Vcc range (V)	4.5 to 5.5			
Input Level	TTL			
Output Level	TTL			
Output Drive (mA)	-0.4/8			
Output	2S			
No. of Bits	6			
Static Current	19			
th (ns)	0			
tpd(max) (ns)	17			
tsu (ns)	10			
100 (1.0)				

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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:
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- 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

DESCRIPTION Back to Top

These positive-edge-triggered flip-flops utilize TTL circuitry to implement D-type flip-flop logic. All have a direct-clear (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.

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.

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- Designing With Logic (SDYA009C Updated: 06/01/1997)
- <u>Input and Output Characteristics of Digital Integrated Circuits</u> (SDYA010 Updated: 10/01/1996)
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- Logic Selection Guide Second Half 2000 (SDYU001N, 5035 KB Updated: 04/17/2000)
- MicroStar Junior BGA Design Summary (SCET004, 167 KB Updated: 07/28/2000)
- More Power In Less Space Technical Article (SCAU001A, 850 KB Updated: 03/01/1996)

PRICING/AVAILABILITY

ORDERABLE DEVICE	<u>PACKAGE</u>	<u>PINS</u>	<u>TEMP</u> (°C)	<u>STATUS</u>	BUDGETARY PRICE US\$/UNIT OTY=1000+	PACK QTY	PRICING/AVAILABILITY
SN74ALS174D	<u>D</u>	16	0 TO 70	ACTIVE	0.53	40	Check stock or order
SN74ALS174DR	<u>D</u>	16	0 TO 70	ACTIVE	0.57	2500	Check stock or order
SN74ALS174N	<u>N</u>	16	0 TO 70	ACTIVE	0.50	25	Check stock or order
SN74ALS174N3	<u>N</u>	16	0 TO 70	OBSOLETE			
SN74ALS174NSR	<u>NS</u>	16	0 TO 70	ACTIVE	0.62	2000	Check stock or order

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PRICING/AVAILABILITY | APPLICATION NOTES |
RELATED DOCUMENTS

PRODUCT SUPPORT: TRAINING

SN74ALS175, Quadruple D-Type Positive-Edge-Triggered Flip-Flops With Clear

DEVICE STATUS: ACTIVE

PARAMETER NAME	SN74ALS175		
Voltage Nodes (V)	5		
Vcc range (V)	4.5 to 5.5		
Input Level	TTL		
Output Level	TTL		
Output Drive (mA)	-0.4/8		
Output	2S		
No. of Bits	4		
Static Current	14		
th (ns)	0		
tpd(max) (ns)	17		
tsu (ns)	10		

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DESCRIPTION Back to Top

These positive-edge-triggered flip-flops utilize TTL circuitry to implement D-type flip-flop logic. All have a direct-clear (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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PRICING/AVAILABILITY

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ORDERABLE DEVICE	<u>PACKAGE</u>	<u>PINS</u>	TEMP (°C)	<u>STATUS</u>	BUDGETARY PRICE US\$/UNIT OTY=1000+	PACK QTY	PRICING/AVAILABILITY
SN74ALS175D	<u>D</u>	16	0 TO 70	ACTIVE	0.53	40	Check stock or order
SN74ALS175DR	<u>D</u>	16	0 TO 70	ACTIVE	0.57	2500	Check stock or order
SN74ALS175N	<u>N</u>	16	0 TO 70	ACTIVE	0.50	25	Check stock or order
SN74ALS175NSR	<u>NS</u>	16	0 TO 70	ACTIVE	0.62	2000	Check stock or order

Table Data Updated on: 11/15/2000

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