

# SN54ALS574B, SN54AS574, SN54AS575 SN74ALS574B, SN74ALS575A, SN74AS574, SN74AS575 OCTAL D-TYPE EDGE-TRIGGERED FLIP-FLOPS WITH 3-STATE OUTPUTS

SDAS165B – JUNE 1982 – REVISED JULY 1995

- 3-State Buffer-Type Noninverting Outputs Drive Bus Lines Directly
- Bus-Structured Pinout
- Buffered Control Inputs
- SN74ALS575A and 'AS575 Have Synchronous Clear
- Package Options Include Plastic Small-Outline (DW) Packages, Ceramic Chip Carriers (FK), Standard Plastic (N, NT) and Ceramic (J, JT) 300-mil DIPs, and Ceramic Flat (W) Packages

## description

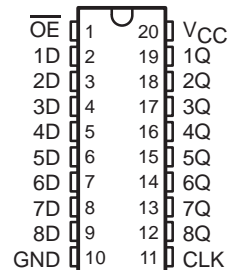
These octal D-type edge-triggered flip-flops feature 3-state outputs designed specifically for bus driving. They are particularly suitable for implementing buffer registers, I/O ports, bidirectional bus drivers, and working registers.

The eight flip-flops enter data on the low-to-high transition of the clock (CLK) input. The SN74ALS575A, SN54AS575, and SN74AS575 may be synchronously cleared by taking the clear ( $\overline{\text{CLR}}$ ) input low.

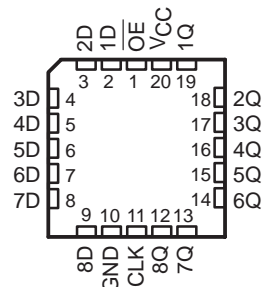
The output-enable ( $\overline{\text{OE}}$ ) input does not affect internal operations of the flip-flops. Old data can be retained or new data can be entered while the outputs are in the high-impedance state.

The SN54ALS574B, SN54AS574, and SN54AS575 are characterized for operation over the full military temperature range of  $-55^{\circ}\text{C}$  to  $125^{\circ}\text{C}$ . The SN74ALS574B, SN74ALS575A, SN74AS574, and SN74AS575 are characterized for operation from  $0^{\circ}\text{C}$  to  $70^{\circ}\text{C}$ .

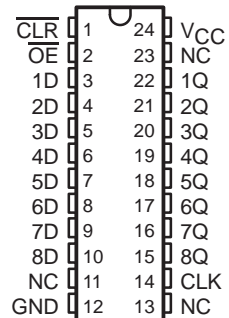
SN54ALS574B, SN54AS574 . . . J OR W PACKAGE  
SN74ALS574B, SN74AS574 . . . DW OR N PACKAGE  
(TOP VIEW)



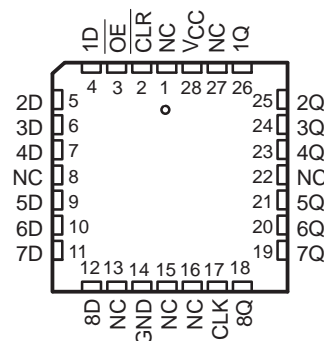
SN54ALS574B, SN54AS574 . . . FK PACKAGE  
(TOP VIEW)



SN54AS575 . . . JT OR W PACKAGE  
SN74ALS575A, SN74AS575 . . . DW OR NT PACKAGE  
(TOP VIEW)



SN54AS575 . . . FK PACKAGE  
(TOP VIEW)



NC – No internal connection

**SN54ALS574B, SN54AS574, SN54AS575**  
**SN74ALS574B, SN74ALS575A, SN74AS574, SN74AS575**  
**OCTAL D-TYPE EDGE-TRIGGERED FLIP-FLOPS WITH 3-STATE OUTPUTS**

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**Function Tables**

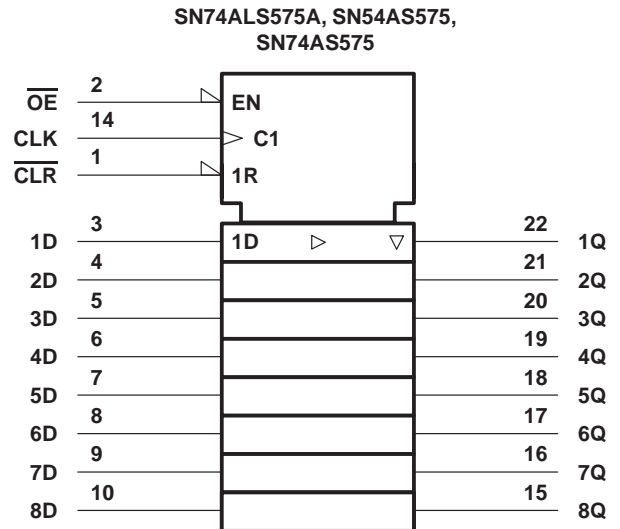
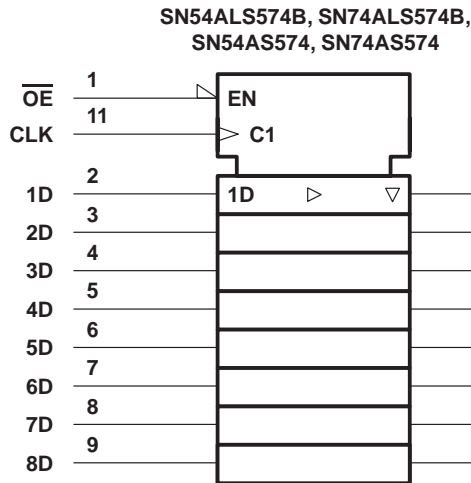
**SN54ALS574B, SN74ALS574B, SN54AS574, SN74AS574**  
 (each flip-flop)

INPUTS			OUTPUT
$\overline{OE}$	CLK	D	Q
L	↑	H	H
L	↑	L	L
L	L	X	$Q_0$
H	X	X	Z

**SN74ALS575A, SN54AS575, SN74AS575**  
 (each flip-flop)

INPUTS				OUTPUT
$\overline{OE}$	CLR	CLK	D	Q
L	L	↑	X	L
L	H	↑	H	H
L	H	↑	L	L
L	H	L	X	$Q_0$
H	X	H	X	Z

**logic symbol†**

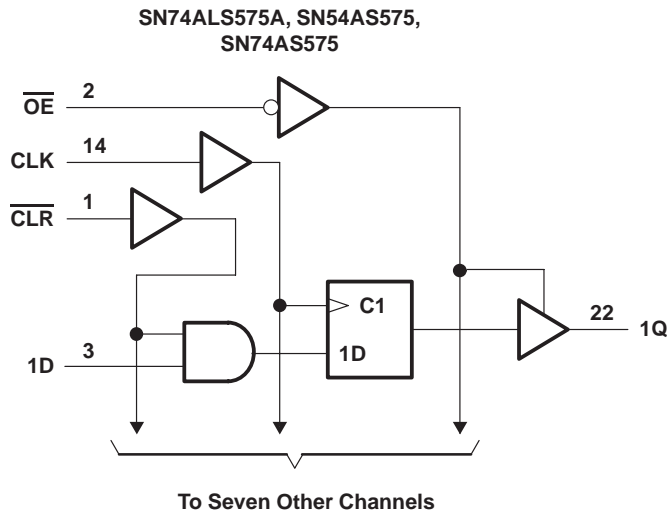
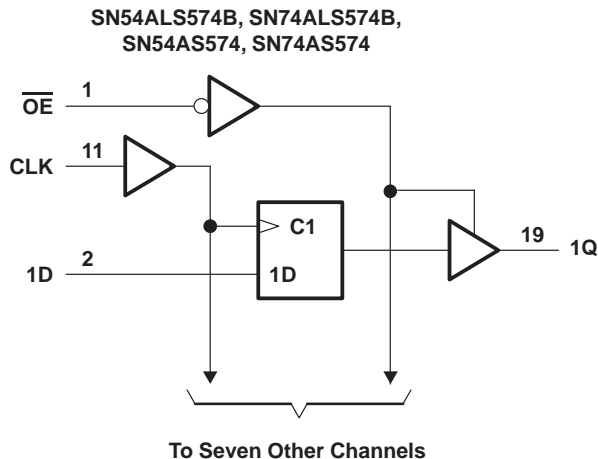


† These symbols are in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12. Pin numbers shown are for the DW, J, JT, N, and NT packages.

**SN54ALS574B, SN54AS574, SN54AS575**  
**SN74ALS574B, SN74ALS575A, SN74AS574, SN74AS575**  
**OCTAL D-TYPE EDGE-TRIGGERED FLIP-FLOPS WITH 3-STATE OUTPUTS**

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**logic diagrams (positive logic)**



Pin numbers shown are for the DW, J, JT, N, and NT 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
Voltage applied to a disabled 3-state output	5.5 V
Operating free-air temperature range, $T_A$ : SN54ALS574B	-55°C to 125°C
SN74ALS574B, SN74ALS575A	0°C to 70°C
Storage temperature range	-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**

		SN54ALS574B			SN74ALS574B SN74ALS575A			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			0.7			0.8	V
$I_{OH}$	High-level output current			-1			-2.6	mA
$I_{OL}$	Low-level output current			12			24	mA
$f_{clock}$	Clock frequency	'ALS574B		0	28	0		35
		SN74ALS575A				0		30
$t_w$	Pulse duration	'ALS574B, CLK high or low		16.5		14		ns
		SN74ALS575A, CLK high or low				16.5		
$t_{su}$	Setup time before CLK↑	Data		15		15		ns
		SN74ALS575A, $\overline{CLR}$				15		
$t_h$	Hold time after CLK↑	Data		4		0		ns
		SN74ALS575A, $\overline{CLR}$				0		
$T_A$	Operating free-air temperature	-55		125		0	70	°C



**SN54ALS574B, SN54AS574, SN54AS575**  
**SN74ALS574B, SN74ALS575A, SN74AS574, SN74AS575**  
**OCTAL D-TYPE EDGE-TRIGGERED FLIP-FLOPS WITH 3-STATE OUTPUTS**

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

PARAMETER	TEST CONDITIONS		SN54ALS574B			SN74ALS574B SN74ALS575A			UNIT
			MIN	TYP†	MAX	MIN	TYP†	MAX	
$V_{IK}$	$V_{CC} = 4.5\text{ V}$ , $I_I = -18\text{ mA}$		-1.2			-1.2			V
$V_{OH}$	$V_{CC} = 4.5\text{ V to }5.5\text{ V}$ , $I_{OH} = -0.4\text{ mA}$		$V_{CC} - 2$			$V_{CC} - 2$			V
	$V_{CC} = 4.5\text{ V}$	$I_{OH} = -1\text{ mA}$	2.4	3.3					
		$I_{OH} = -2.6\text{ mA}$				2.4	3.2		
$V_{OL}$	$V_{CC} = 4.5\text{ V}$	$I_{OL} = 12\text{ mA}$	0.25 0.4		0.25 0.4				V
		$I_{OL} = 24\text{ mA}$				0.35 0.5			
$I_{OZH}$	$V_{CC} = 5.5\text{ V}$ , $V_O = 2.7\text{ V}$	20			20			$\mu\text{A}$	
$I_{OZL}$	$V_{CC} = 5.5\text{ V}$ , $V_O = 0.4\text{ V}$	-20			-20			$\mu\text{A}$	
$I_I$	$V_{CC} = 5.5\text{ V}$ , $V_I = 7\text{ V}$	0.1			0.1			mA	
$I_{IH}$	$V_{CC} = 5.5\text{ V}$ , $V_I = 2.7\text{ V}$	20			20			$\mu\text{A}$	
$I_{IL}$	$V_{CC} = 5.5\text{ V}$ , $V_I = 0.4\text{ V}$	-0.2			-0.2			mA	
$I_{O\ddagger}$	$V_{CC} = 5.5\text{ V}$ , $V_O = 2.25\text{ V}$	-20	-112		-30	-112		mA	
$I_{CC}$	'ALS574B	$V_{CC} = 5.5\text{ V}$	Outputs high	11	18	11	18	mA	
			Outputs low	17	27	17	27		
			Outputs disabled	17	28	17	28		
	SN74ALS575A	$V_{CC} = 5.5\text{ V}$	Outputs high	10	17	10	17		
			Outputs low	15	24	15	24		
			Outputs disabled	16	30	16	30		

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

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

**switching characteristics (see Figure 1)**

PARAMETER	FROM (INPUT)	TO (OUTPUT)	$V_{CC} = 4.5\text{ V to }5.5\text{ V}$ , $C_L = 50\text{ pF}$ , $R_1 = 500\ \Omega$ , $R_2 = 500\ \Omega$ , $T_A = \text{MIN to MAX}\S$						UNIT
			SN54ALS574B		SN74ALS574B		SN74ALS575A		
			MIN	MAX	MIN	MAX	MIN	MAX	
$f_{\text{max}}$			28		35		30	MHz	
$t_{\text{PLH}}$	CLK	Q	4	22	3	14	4	14	ns
$t_{\text{PHL}}$			4	17	4	14	4	14	
$t_{\text{PZH}}$	$\overline{\text{OE}}$	Q	4	21	3	18	4	18	ns
$t_{\text{PZL}}$			4	26	4	18	4	18	
$t_{\text{PHZ}}$	$\overline{\text{OE}}$	Q	2	16	1	10	2	10	ns
$t_{\text{PLZ}}$			2	25	2	12	3	13	

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



**SN54ALS574B, SN54AS574, SN54AS575**  
**SN74ALS574B, SN74ALS575A, SN74AS574, SN74AS575**  
**OCTAL D-TYPE EDGE-TRIGGERED FLIP-FLOPS WITH 3-STATE OUTPUTS**

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

Supply voltage, $V_{CC}$ .....	7 V
Input voltage, $V_I$ .....	7 V
Voltage applied to a disabled 3-state output .....	5.5 V
Operating free-air temperature range, $T_A$ : SN54AS574, SN54AS575 .....	–55°C to 125°C
SN74AS574, SN74AS575 .....	0°C to 70°C
Storage temperature range .....	–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**

		SN54AS574 SN54AS575			SN74AS574 SN74AS575			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			–12			–15	mA
$I_{OL}$	Low-level output current			32			48	mA
$f_{clock}^*$	Clock frequency	0		100	0		90	MHz
$t_w^*$	Pulse duration	CLK high		5	5.5		ns	
		CLK low		4	5.5			
$t_{su}^*$	Setup time before CLK↑	Data		3	5.5		ns	
		'AS575, $\overline{CLR}$ high or low		6.5	6.5			
$t_h^*$	Hold time after CLK↑	Data		3	3		ns	
		'AS575, $\overline{CLR}$		0	0			
$T_A$	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.



**SN54ALS574B, SN54AS574, SN54AS575**  
**SN74ALS574B, SN74ALS575A, SN74AS574, SN74AS575**  
**OCTAL D-TYPE EDGE-TRIGGERED FLIP-FLOPS WITH 3-STATE OUTPUTS**

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

PARAMETER		TEST CONDITIONS	SN54AS574 SN54AS575		SN74AS574 SN74AS575		UNIT
			MIN	TYP†	MAX	MIN	
V <sub>IK</sub>		V <sub>CC</sub> = 4.5 V, I <sub>I</sub> = -18 mA			-1.2		V
V <sub>OH</sub>		V <sub>CC</sub> = 4.5 V to 5.5 V, I <sub>OH</sub> = -2 mA	V <sub>CC</sub> - 2		V <sub>CC</sub> - 2		V
		V <sub>CC</sub> = 4.5 V, I <sub>OH</sub> = -12 mA	2.4	3.2			
V <sub>OL</sub>		V <sub>CC</sub> = 4.5 V, I <sub>OH</sub> = -15 mA			2.4	3.3	V
		V <sub>CC</sub> = 4.5 V, I <sub>OL</sub> = 32 mA	0.29	0.5			
		V <sub>CC</sub> = 4.5 V, I <sub>OL</sub> = 48 mA			0.34	0.5	
I <sub>OZH</sub>		V <sub>CC</sub> = 5.5 V, V <sub>O</sub> = 2.7 V			50		μA
I <sub>OZL</sub>		V <sub>CC</sub> = 5.5 V, V <sub>O</sub> = 0.4 V			-50		μA
I <sub>I</sub>		V <sub>CC</sub> = 5.5 V, V <sub>I</sub> = 7 V			0.1		mA
I <sub>IH</sub>		V <sub>CC</sub> = 5.5 V, V <sub>I</sub> = 2.7 V			20		μA
I <sub>IL</sub>	$\overline{OE}$ , CLK, $\overline{CLR}$	V <sub>CC</sub> = 5.5 V, V <sub>I</sub> = 0.4 V			-0.5		mA
	D				-3		
I <sub>O‡</sub>		V <sub>CC</sub> = 5.5 V, V <sub>O</sub> = 2.25 V	-30	-112	-30	-112	mA
I <sub>CC</sub>	'AS574	V <sub>CC</sub> = 5.5 V	Outputs high		73	116	mA
			Outputs low		85	134	
			Outputs disabled		84	134	
	'AS575	V <sub>CC</sub> = 5.5 V	Outputs high		78	126	
			Outputs low		89	142	
			Outputs disabled		88	142	

† All typical values are at V<sub>CC</sub> = 5 V, T<sub>A</sub> = 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<sub>OS</sub>.

**switching characteristics (see Figure 1)**

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V <sub>CC</sub> = 4.5 V to 5.5 V, C <sub>L</sub> = 50 pF, R <sub>1</sub> = 500 Ω, R <sub>2</sub> = 500 Ω, T <sub>A</sub> = MIN to MAX§				UNIT
			SN54AS574 SN54AS575		SN74AS574 SN74AS575		
			MIN	MAX	MIN	MAX	
f <sub>max</sub> *			100		90	MHz	
t <sub>PLH</sub>	CLK	Any Q	3	11	3	8	ns
t <sub>PHL</sub>			4	11	4	9	
t <sub>PZH</sub>	$\overline{OE}$	Any Q	2	7	2	6	ns
t <sub>PZL</sub>			3	11	3	10	
t <sub>PHZ</sub>	$\overline{OE}$	Any Q	2	7	2	6	ns
t <sub>PLZ</sub>			2	7	2	6	

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

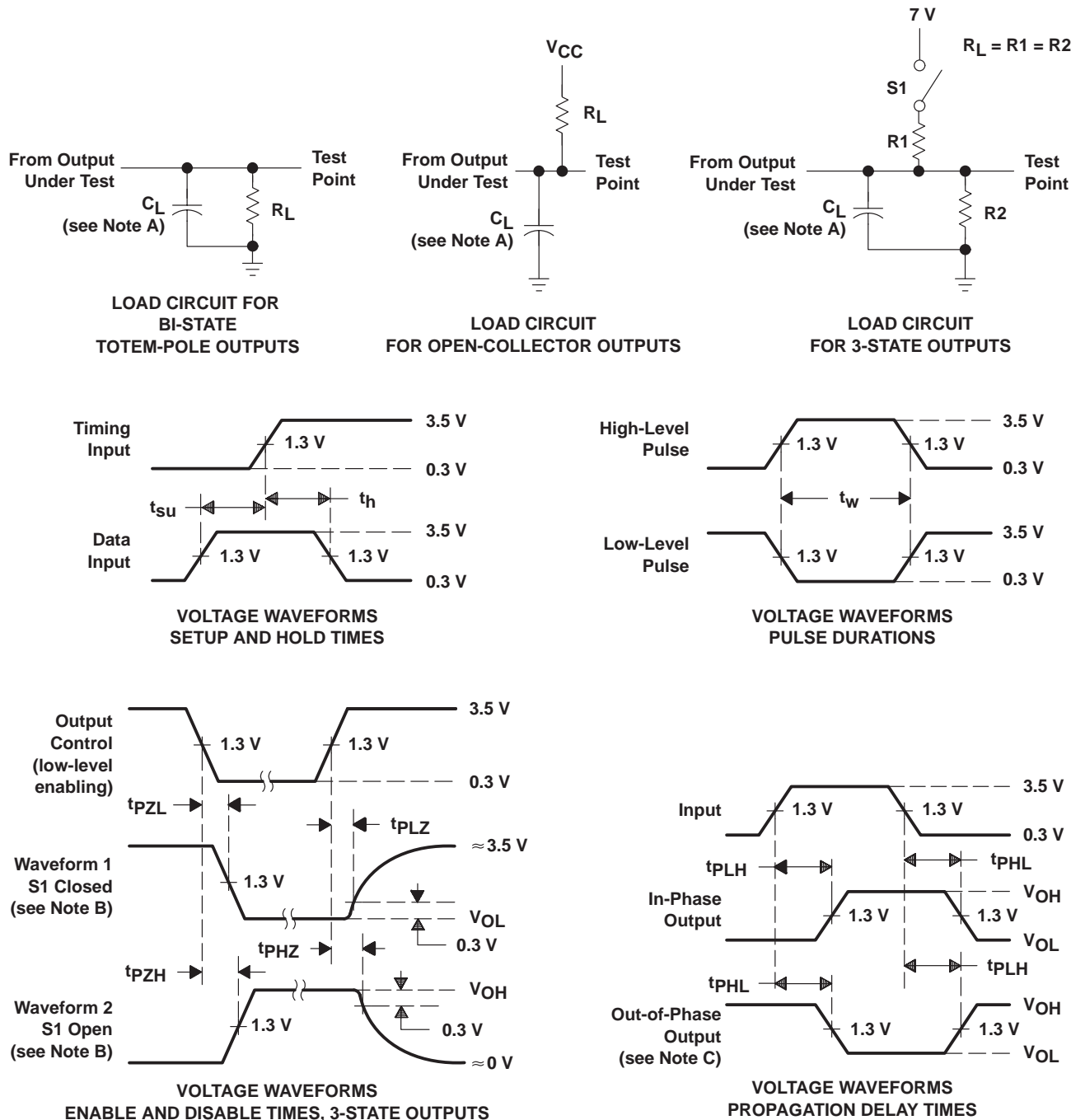
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 OCTAL D-TYPE EDGE-TRIGGERED FLIP-FLOPS WITH 3-STATE OUTPUTS

SDAS165B – JUNE 1982 – REVISED JULY 1995

**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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PRODUCT SUPPORT: [TRAINING](#)

## SN54ALS574B, Octal D-type Edge-Triggered Flip-Flops With 3-State Outputs

DEVICE STATUS: ACTIVE

PARAMETER NAME	SN54ALS574B	SN74ALS574B
Voltage Nodes (V)	5	5
Vcc range (V)	4.5 to 5.5	4.5 to 5.5
Input Level	TTL	TTL
Output Level	TTL	TTL
Output Drive (mA)		-2.6/24
No. of Outputs	8	8
Static Current		22.5
t <sub>h</sub> (ns)		0
t <sub>pd</sub> max (ns)		14
t <sub>su</sub> (ns)		15
Logic	True	True

### FEATURES

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- 3-State Buffer-Type Noninverting Outputs Drive Bus Lines Directly
- Bus-Structured Pinout
- Buffered Control Inputs
- SN74ALS575A and AS575 Have Synchronous Clear
- Package Options Include Plastic Small-Outline (DW) Packages, Ceramic Chip Carriers (FK), Standard Plastic (N, NT) and Ceramic (J, JT) 300-mil DIPs, and Ceramic Flat (W) Packages

### DESCRIPTION

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These octal D-type edge-triggered flip-flops feature 3-state outputs designed specifically for bus driving. They are particularly suitable for implementing buffer registers, I/O ports, bidirectional bus drivers, and working registers.

The eight flip-flops enter data on the low-to-high transition of the clock (CLK) input. The SN74ALS575A, SN54AS575, and SN74AS575 may be synchronously cleared by taking the clear ( $\overline{\text{CLR}}$ ) input low.

The output-enable ( $\overline{\text{OE}}$ ) input does not affect internal operations of the flip-flops. Old data can be retained or new data can be entered while the outputs are in the high-impedance state.

The SN54ALS574B, SN54AS574, and SN54AS575 are characterized for operation over the full military temperature range of -55°C to 125°C. The SN74ALS574B, SN74ALS575A, SN74AS574, and SN74AS575 are characterized for operation from 0°C to 70°C.

### TECHNICAL DOCUMENTS

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To download a document to your hard drive, right-click on the link and choose 'Save'.

**DATASHEET**

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Full datasheet in Acrobat PDF: [sn54als574b.pdf](#) (129 KB, Rev.B) (Updated: 07/01/1995)

**APPLICATION NOTES**

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View Application Notes 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 \(Rev. A\)](#) (SCBA012A - Updated: 08/01/1997)
- [Designing With Logic \(Rev. C\)](#) (SDYA009C - Updated: 06/01/1997)
- [Evaluation of Nickel/Palladium/Gold-Finished Surface-Mount Integrated Circuits](#) (SZZA026 - Updated: 06/20/2001)
- [Input and Output Characteristics of Digital Integrated Circuits](#) (SDYA010 - Updated: 10/01/1996)
- [Live Insertion](#) (SDYA012 - Updated: 10/01/1996)
- [TI IBIS File Creation, Validation, and Distribution Processes](#) (SZZA034 - Updated: 08/29/2002)
- [Understanding and Interpreting Texas Instruments Standard-Logic Products Data Sh \(Rev. A\)](#) (SZZA036A - Updated: 02/27/2003)

**MORE LITERATURE**

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- [Enhanced Plastic Portfolio Brochure](#) (SGZB004, 387 KB - Updated: 08/19/2002)
- [Logic Reference Guide](#) (SCYB004, 1032 KB - Updated: 10/23/2001)
- [MicroStar Junior BGA Design Summary](#) (SCET004, 167 KB - Updated: 07/28/2000)
- [Military Brief](#) (SGYN138, 803 KB - Updated: 10/10/2000)
- [Overview of IEEE Std 91-1984, Explanation of Logic Symbols Training Booklet \(Rev. A\)](#) (SDYZ001A, 138 KB - Updated: 07/01/1996)
- [Palladium Lead Finish User's Manual](#) (SDYV001, 2041 KB - Updated: 11/01/1996)
- [QML Class V Space Products Military Brief \(Rev. A\)](#) (SGZN001A, 257 KB - Updated: 10/07/2002)

**USER GUIDES**

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- [LOGIC Pocket Data Book](#) (SCYD013, 4837 KB - Updated: 12/05/2002)

**PRICING/AVAILABILITY/PKG**

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DEVICE INFORMATION Updated Daily								TI INVENTORY STATUS As Of 09:00 AM GMT, 17 Apr 2003			REPORTED DISTRIBUTOR INVENTORY As Of 09:00 AM GMT, 17 Apr 2003		
ORDERABLE DEVICE	STATUS	PACKAGE TYPE   PINS	TEMP (°C)	DSCC NUMBER	PRODUCT CONTENT	BUDGETARY PRICING QTY   SUS	STD PACK QTY	IN STOCK	IN PROGRESS QTY   DATE	LEAD TIME	DISTRIBUTOR COMPANY   REGION	IN STOCK	PURCHASE
84001012A	ACTIVE	LCCC (FK)   20	-55 TO 125		<a href="#">View Contents</a>	1KU   10.65	1	120*	3856   20 May	8 WKS	None Reported <a href="#">View Distributors</a>		
									> 10k   27 May				
8400101RA	ACTIVE	CDIP (J)   20	-55 TO 125		<a href="#">View Contents</a>	1KU   5.63	1	65*	> 10k   20 May	8 WKS	<a href="#">Avnet</a>   Americas	21	<b>BUY NOW</b>
8400101SA	ACTIVE	CFP (W)   20	-55 TO 125		<a href="#">View Contents</a>	1KU   9.65	1	0*	> 10k   20 May	8 WKS	None Reported <a href="#">View Distributors</a>		
JM38510/37104B2A	ACTIVE	LCCC (FK)   20	-55 TO 125		<a href="#">View Contents</a>	1KU   18.76	1	0*	3801   20 May	8 WKS	None Reported <a href="#">View Distributors</a>		
									> 10k   27 May				
JM38510/37104BRA	ACTIVE	CDIP (J)   20	-55 TO 125		<a href="#">View Contents</a>	1KU   13.94	1	250*	> 10k   20 May	8 WKS	<a href="#">Avnet</a>   Americas	56	<b>BUY NOW</b>
SN54ALS574BJ	ACTIVE	CDIP (J)   20	-55 TO 125		<a href="#">View Contents</a>	1KU   4.79	1	2932*	> 10k   20 May	8 WKS	<a href="#">EBV Elektronik</a>   Europe	50	<b>BUY NOW</b>

SNJ54ALS574BFK	ACTIVE	<a href="#">LCCC (FK)</a>   20	-55 TO 125	84001012A	<a href="#">View Contents</a>	1KU   10.65	1	<a href="#">61*</a>	3757   20 May	8 WKS	<a href="#">Avnet-SILICA</a>   Europe	12	<a href="#">BUY NOW</a>
									> 10k   27 May				
SNJ54ALS574BJ	ACTIVE	<a href="#">CDIP (J)</a>   20	-55 TO 125	8400101RA	<a href="#">View Contents</a>	1KU   5.63	1	<a href="#">274*</a>	> 10k   20 May	8 WKS	<a href="#">EBV Electronik</a>   Europe	40	<a href="#">BUY NOW</a>
SNJ54ALS574BW	ACTIVE	<a href="#">CFP (W)</a>   20	-55 TO 125	8400101SA	<a href="#">View Contents</a>	1KU   9.65	1	<a href="#">8*</a>	> 10k   20 May	8 WKS	None Reported <a href="#">View Distributors</a>		

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