

SN54LVC573A, SN74LVC573A OCTAL TRANSPARENT D-TYPE LATCHES WITH 3-STATE OUTPUTS

SCAS300I – JANUARY 1993 – REVISED JUNE 1998

- **EPIC™ (Enhanced-Performance Implanted CMOS) Submicron Process**
- **Typical V_{OLP} (Output Ground Bounce) $< 0.8\text{ V}$ at $V_{CC} = 3.3\text{ V}$, $T_A = 25^\circ\text{C}$**
- **Typical V_{OHV} (Output V_{OH} Undershoot) $> 2\text{ V}$ at $V_{CC} = 3.3\text{ V}$, $T_A = 25^\circ\text{C}$**
- **Support Mixed-Mode Signal Operation on All Ports (5-V Input/Output Voltage With 3.3-V V_{CC})**
- **Power Off Disables Outputs, Permitting Live Insertion**
- **ESD Protection Exceeds 2000 V Per MIL-STD-883, Method 3015; Exceeds 200 V Using Machine Model (C = 200 pF, R = 0)**
- **Latch-Up Performance Exceeds 250 mA Per JESD 17**
- **Package Options Include Plastic Small-Outline (DW), Shrink Small-Outline (DB), Thin Shrink Small-Outline (PW), and Ceramic Flat (W) Packages, Ceramic Chip Carriers (FK), and DIPs (J)**

description

The SN54LVC573A octal transparent D-type latch is designed for 2.7-V to 3.6-V V_{CC} operation and the SN74LVC573A octal transparent D-type latch is designed for 1.65-V to 3.6-V V_{CC} operation.

These devices feature 3-state outputs designed specifically for driving highly capacitive or relatively low-impedance loads. They are particularly suitable for implementing buffer registers, input/output (I/O) ports, bidirectional bus drivers, and working registers.

While the latch-enable (LE) input is high, the Q outputs follow the data (D) inputs. When LE is taken low, the Q outputs are latched at the logic levels at the D inputs.

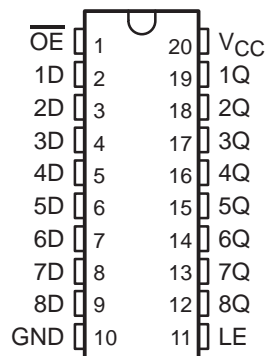
A buffered output-enable (\overline{OE}) input can be used to place the eight outputs in either a normal logic state (high or low logic levels) or a high-impedance state. In the high-impedance state, the outputs neither load nor drive the bus lines significantly. The high-impedance state and increased drive provide the capability to drive bus lines without interface or pullup components.

\overline{OE} does not affect the internal operations of the latches. Old data can be retained or new data can be entered while the outputs are in the high-impedance state.

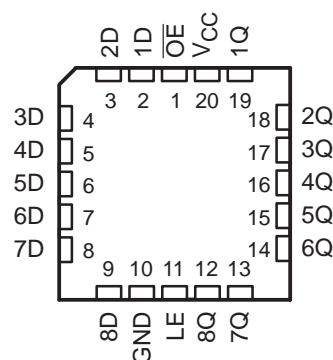
To ensure the high-impedance state during power up or power down, \overline{OE} should be tied to V_{CC} through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

Inputs can be driven from either 3.3-V or 5-V devices. This feature allows the use of these devices as translators in a mixed 3.3-V/5-V system environment.

SN54LVC573A . . . J OR W PACKAGE
SN74LVC573A . . . DB, DW, OR PW PACKAGE
(TOP VIEW)



SN54LVC573A . . . FK PACKAGE
(TOP VIEW)



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 **TEXAS
INSTRUMENTS**

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On products compliant to MIL-PRF-38535, all parameters are tested unless otherwise noted. On all other products, production processing does not necessarily include testing of all parameters.

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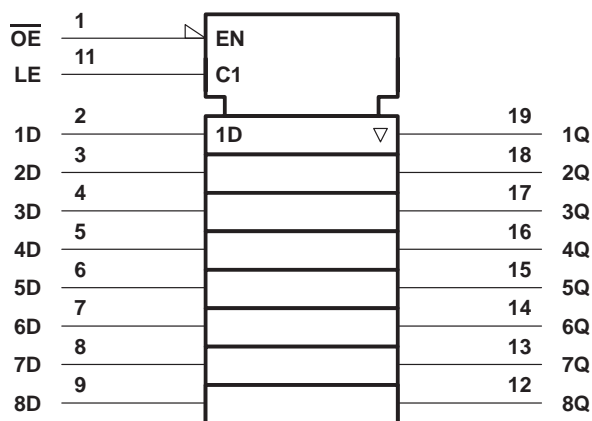
description (continued)

The SN54LVC573A is characterized for operation over the full military temperature range of -55°C to 125°C . The SN74LVC573A is characterized for operation from -40°C to 85°C .

FUNCTION TABLE
(each latch)

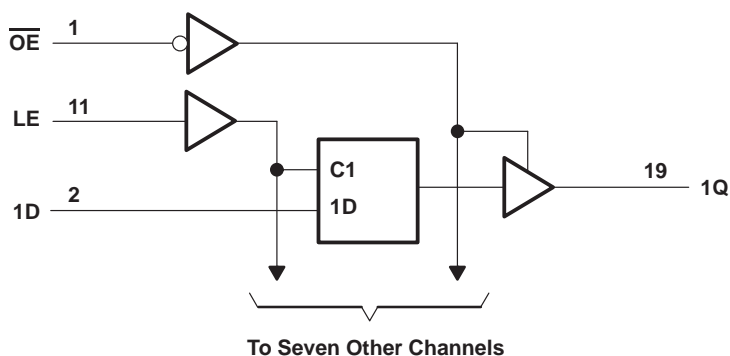
INPUTS			OUTPUT
$\overline{\text{OE}}$	LE	D	Q
L	H	H	H
L	H	L	L
L	L	X	Q_0
H	X	X	Z

logic symbol†



† This symbol is in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12.

logic diagram (positive logic)



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

Supply voltage range, V_{CC}	–0.5 V to 6.5 V
Input voltage range, V_I (see Note 1)	–0.5 V to 6.5 V
Voltage range applied to any output in the high-impedance or power-off state, V_O (see Note 1)	–0.5 V to 6.5 V
Voltage range applied to any output in the high or low state, V_O (see Notes 1 and 2)	–0.5 V to $V_{CC} + 0.5$ V
Input clamp current, I_{IK} ($V_I < 0$)	–50 mA
Output clamp current, I_{OK} ($V_O < 0$)	–50 mA
Continuous output current, I_O	±50 mA
Continuous current through V_{CC} or GND	±100 mA
Package thermal impedance, θ_{JA} (see Note 3): DB package	115°C/W
DW package	97°C/W
PW package	128°C/W
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.

- NOTES: 1. The input negative-voltage and output voltage ratings may be exceeded if the input and output current ratings are observed.
 2. The value of V_{CC} is provided in the recommended operating conditions table.
 3. The package thermal impedance is calculated in accordance with JESD 51.

recommended operating conditions (see Note 4)

		SN54LVC573A		SN74LVC573A		UNIT
		MIN	MAX	MIN	MAX	
V_{CC} Supply voltage	Operating	2	3.6	1.65	3.6	V
	Data retention only	1.5		1.5		
V_{IH} High-level input voltage	$V_{CC} = 1.65$ V to 1.95 V			$0.65 \times V_{CC}$		V
	$V_{CC} = 2.3$ V to 2.7 V			1.7		
	$V_{CC} = 2.7$ V to 3.6 V	2		2		
V_{IL} Low-level input voltage	$V_{CC} = 1.65$ V to 1.95 V			$0.35 \times V_{CC}$		V
	$V_{CC} = 2.3$ V to 2.7 V			0.7		
	$V_{CC} = 2.7$ V to 3.6 V		0.8	0.8		
V_I Input voltage		0	5.5	0	5.5	V
V_O Output voltage	High or low state	0	V_{CC}	0	V_{CC}	V
	3 state	0	5.5	0	5.5	
I_{OH} High-level output current	$V_{CC} = 1.65$ V				–4	mA
	$V_{CC} = 2.3$ V				–8	
	$V_{CC} = 2.7$ V		–12		–12	
	$V_{CC} = 3$ V		–24		–24	
I_{OL} Low-level output current	$V_{CC} = 1.65$ V				4	mA
	$V_{CC} = 2.3$ V				8	
	$V_{CC} = 2.7$ V		12		12	
	$V_{CC} = 3$ V		24		24	
$\Delta t/\Delta v$ Input transition rise or fall rate		0	6	0	6	ns/V
T_A Operating free-air temperature		–55	125	–40	85	°C

NOTE 4: All unused inputs of the device must be held at V_{CC} or GND to ensure proper device operation. Refer to the TI application report, *Implications of Slow or Floating CMOS Inputs*, literature number SCBA004.



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

PARAMETER	TEST CONDITIONS	V _{CC}	SN54LVC573A			SN74LVC573A			UNIT
			MIN	TYP†	MAX	MIN	TYP†	MAX	
V _{OH}	I _{OH} = -100 μA	1.65 V to 3.6 V				V _{CC} -0.2			V
		2.7 V to 3.6 V	V _{CC} -0.2						
	I _{OH} = -4 mA	1.65 V				1.2			
	I _{OH} = -8 mA	2.3 V				1.7			
	I _{OH} = -12 mA	2.7 V	2.2			2.2			
		3 V	2.4			2.4			
I _{OH} = -24 mA	3 V	2.2			2.2				
V _{OL}	I _{OL} = 100 μA	1.65 V to 3.6 V				0.2			V
		2.7 V to 3.6 V	0.2						
	I _{OL} = 4 mA	1.65 V				0.45			
	I _{OL} = 8 mA	2.3 V				0.7			
	I _{OL} = 12 mA	2.7 V	0.4			0.4			
3 V		0.55			0.55				
I _I	V _I = 0 to 5.5 V	3.6 V	±5			±5			μA
I _{off}	V _I or V _O = 5.5 V	0				±10			μA
I _{OZ}	V _O = 0 to 5.5 V	3.6 V	±15			±10			μA
I _{CC}	V _I = V _{CC} or GND	3.6 V	10			10			μA
	3.6 V ≤ V _I ≤ 5.5 V‡		10			10			
ΔI _{CC}	One input at V _{CC} - 0.6 V, Other inputs at V _{CC} or GND	2.7 V to 3.6 V	500			500			μA
C _i	V _I = V _{CC} or GND	3.3 V	4			4			pF
C _o	V _O = V _{CC} or GND	3.3 V	5.5			5.5			pF

† All typical values are at V_{CC} = 3.3 V, T_A = 25°C.

‡ This applies in the disabled state only.

timing requirements over recommended operating free-air temperature range (unless otherwise noted) (see Figure 3)

		SN54LVC573A				UNIT
		V _{CC} = 2.7 V		V _{CC} = 3.3 V ± 0.3 V		
		MIN	MAX	MIN	MAX	
t _w	Pulse duration, LE high	3.3		3.3		ns
t _{su}	Setup time, data before LE↓	2		2		ns
t _h	Hold time, data after LE↓	2.5		2.5		ns



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timing requirements over recommended operating free-air temperature range (unless otherwise noted) (see Figures 1 through 3)

		SN74LVC573A								UNIT
		V _{CC} = 1.8 V ± 0.15 V		V _{CC} = 2.5 V ± 0.2 V		V _{CC} = 2.7 V		V _{CC} = 3.3 V ± 0.3 V		
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t _w	Pulse duration, LE high	†		†		3.3		3.3		ns
t _{su}	Setup time, data before LE↓	†		†		2		2		ns
t _h	Hold time, data after LE↓	†		†		1.5		1.5		ns

† This information was not available at the time of publication.

switching characteristics over recommended operating free-air temperature range (unless otherwise noted) (see Figure 3)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	SN54LVC573A				UNIT
			V _{CC} = 2.7 V		V _{CC} = 3.3 V ± 0.3 V		
			MIN	MAX	MIN	MAX	
t _{pd}	D	Q	7.7		1	6.9	ns
	LE		8.4		1	7.7	
t _{en}	\overline{OE}	Q	8.5		1	7.5	ns
t _{dis}	\overline{OE}	Q	7		0.5	6.7	ns

switching characteristics over recommended operating free-air temperature range (unless otherwise noted) (see Figures 1 through 3)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	SN74LVC573A								UNIT
			V _{CC} = 1.8 V ± 0.15 V		V _{CC} = 2.5 V ± 0.2 V		V _{CC} = 2.7 V		V _{CC} = 3.3 V ± 0.3 V		
			MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t _{pd}	D	Q	†	†	†	†	7.7		1.5	6.9	ns
	LE		†	†	†	†	8.4		2	7.7	
t _{en}	\overline{OE}	Q	†	†	†	†	8.5		1.5	7.5	ns
t _{dis}	\overline{OE}	Q	†	†	†	†	7		1.6	6.5	ns
t _{sk(o)} †									1	ns	

† This information was not available at the time of publication.

‡ Skew between any two outputs of the same package switching in the same direction

operating characteristics, T_A = 25°C

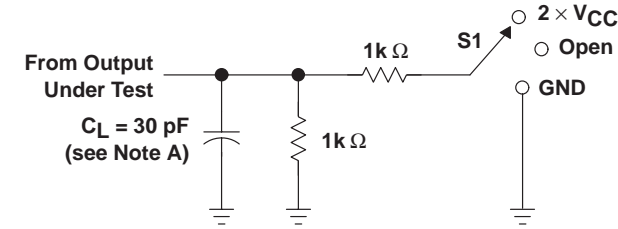
PARAMETER			TEST CONDITIONS	V _{CC} = 1.8 V ± 0.15 V	V _{CC} = 2.5 V ± 0.2 V	V _{CC} = 3.3 V ± 0.3 V	UNIT
				TYP	TYP	TYP	
C _{pd}	Power dissipation capacitance per latch	Outputs enabled	f = 10 MHz	†	†	37	pF
		Outputs disabled		†	†	4	

† This information was not available at the time of publication.

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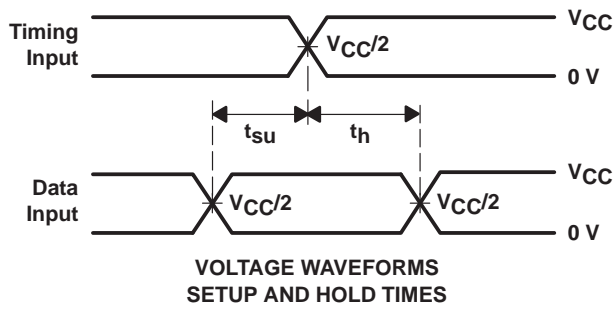
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PARAMETER MEASUREMENT INFORMATION
 $V_{CC} = 1.8\text{ V} \pm 0.15\text{ V}$

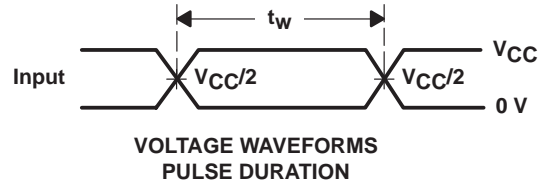


LOAD CIRCUIT

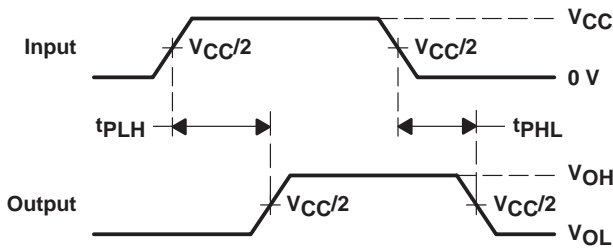
TEST	S1
t_{pd}	Open
t_{PLZ}/t_{PZL}	$2 \times V_{CC}$
t_{PHZ}/t_{PHZ}	Open



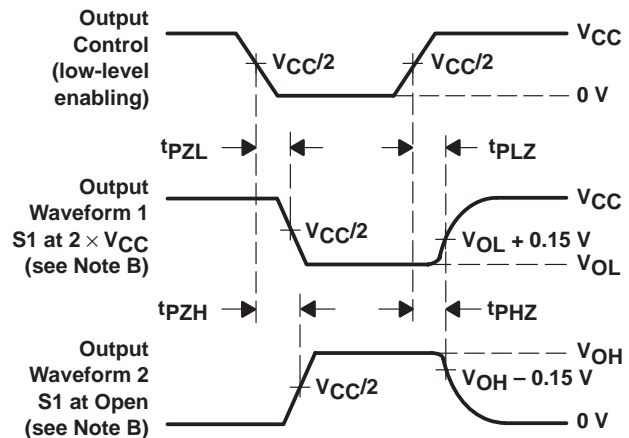
**VOLTAGE WAVEFORMS
 SETUP AND HOLD TIMES**



**VOLTAGE WAVEFORMS
 PULSE DURATION**



**VOLTAGE WAVEFORMS
 PROPAGATION DELAY TIMES**



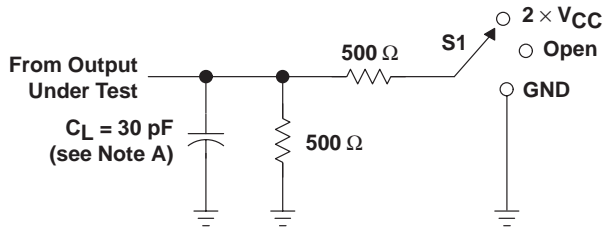
**VOLTAGE WAVEFORMS
 ENABLE AND DISABLE TIMES**

- 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. All input pulses are supplied by generators having the following characteristics: $PRR \leq 10\text{ MHz}$, $Z_O = 50\ \Omega$, $t_r \leq 2\text{ ns}$, $t_f \leq 2\text{ ns}$.
 D. The outputs are measured one at a time with one transition per measurement.
 E. t_{PLZ} and t_{PHZ} are the same as t_{dis} .
 F. t_{PZL} and t_{PZH} are the same as t_{en} .
 G. t_{PLH} and t_{PHL} are the same as t_{pd} .

Figure 1. Load Circuit and Voltage Waveforms

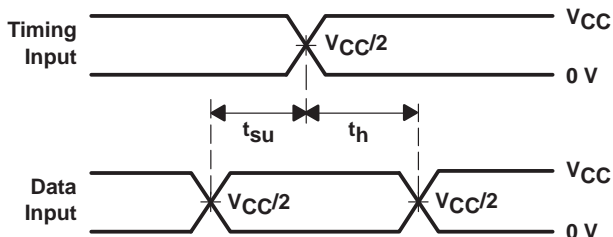
PARAMETER MEASUREMENT INFORMATION

$V_{CC} = 2.5\text{ V} \pm 0.2\text{ V}$

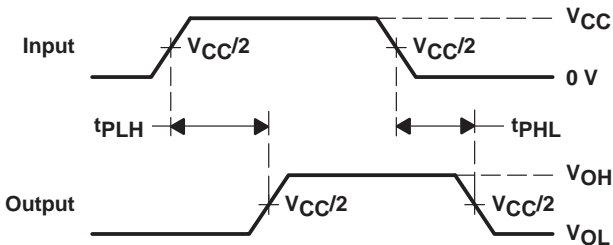


LOAD CIRCUIT

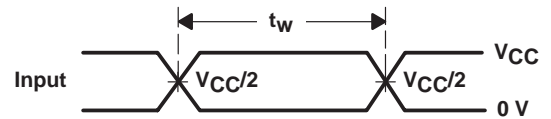
TEST	S1
t_{pd}	Open
t_{PLZ}/t_{PZL}	2 $\times V_{CC}$
t_{PHZ}/t_{PZH}	GND



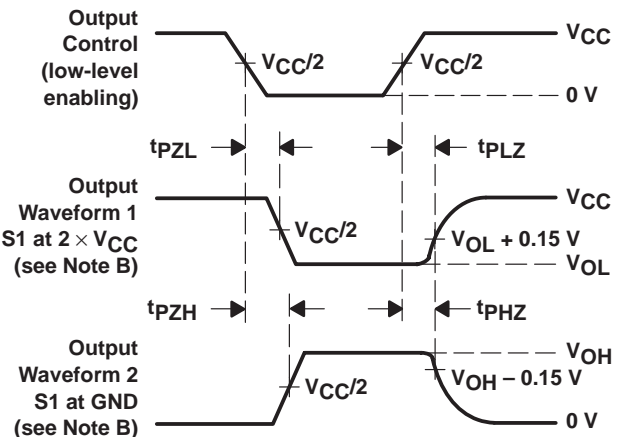
VOLTAGE WAVEFORMS
 SETUP AND HOLD TIMES



VOLTAGE WAVEFORMS
 PROPAGATION DELAY TIMES



VOLTAGE WAVEFORMS
 PULSE DURATION



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 ENABLE AND DISABLE TIMES

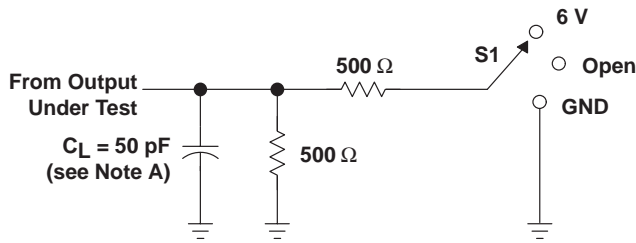
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 G. t_{PLH} and t_{PHL} are the same as t_{pd} .

Figure 2. Load Circuit and Voltage Waveforms

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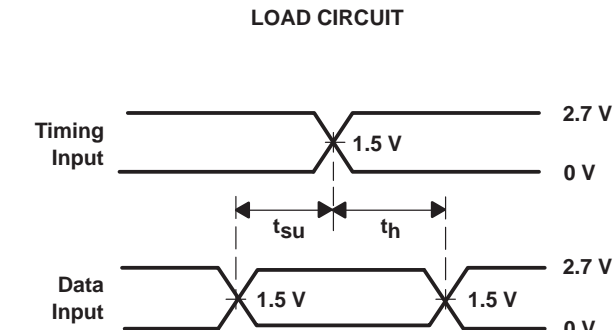
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PARAMETER MEASUREMENT INFORMATION $V_{CC} = 2.7\text{ V AND } 3.3\text{ V} \pm 0.3\text{ V}$

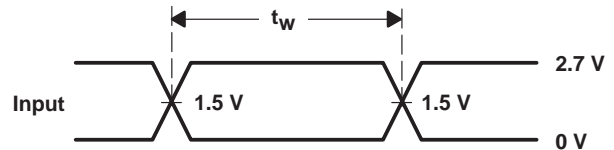


LOAD CIRCUIT

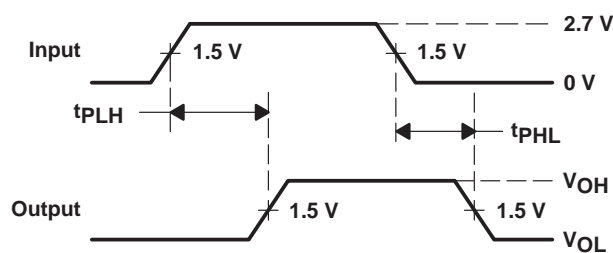
TEST	S1
t_{pd}	Open
t_{PLZ}/t_{PZL}	6 V
t_{PHZ}/t_{PZH}	GND



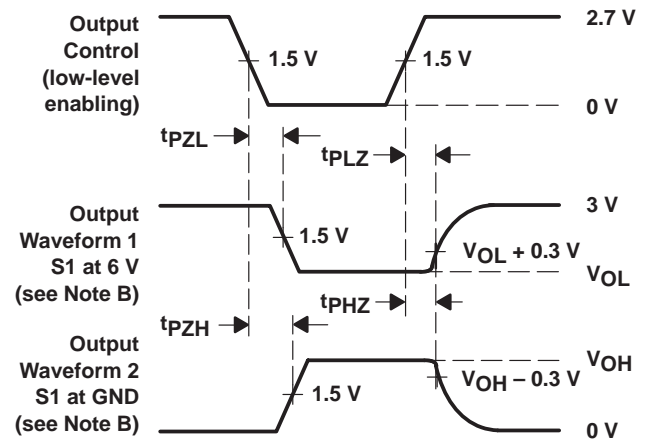
VOLTAGE WAVEFORMS
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 - t_{PZL} and t_{PZH} are the same as t_{en} .
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Figure 3. Load Circuit and Voltage Waveforms

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SN74LVC573A, Octal Transparent D-Type Latches With 3-State Outputs

DEVICE STATUS: **ACTIVE**

PARAMETER NAME	SN74LVC573A
Voltage Nodes (V)	3.3, 2.7, 2.5, 1.8
Vcc range (V)	2.0 to 3.6
Input Level	TTL/CMOS
Output Level	LVTTL
Output Drive (mA)	-24/24
No. of Outputs	8
Static Current	0.01
t _h (ns)	1.5
t _{pd} (max) (ns)	7.5
t _{su} (ns)	2
Logic	True

FEATURES

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- EPIC™ (Enhanced-Performance Implanted CMOS) Submicron Process
- Typical V_{OLP} (Output Ground Bounce) < 0.8 V at V_{CC} = 3.3 V, T_A = 25°C
- Typical V_{OHV} (Output V_{OH} Undershoot) > 2 V at V_{CC} = 3.3 V, T_A = 25°C
- Support Mixed-Mode Signal Operation on All Ports (5-V Input/Output Voltage With 3.3-V V_{CC})
- Power Off Disables Outputs, Permitting Live Insertion
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- Latch-Up Performance Exceeds 250 mA Per JESD 17
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DESCRIPTION[▲ Back to Top](#)

The SN54LVC573A octal transparent D-type latch is designed for 2.7-V to 3.6-V V_{CC} operation and the SN74LVC573A octal transparent D-type latch is designed for 1.65-V to 3.6-V V_{CC} operation.

These devices feature 3-state outputs designed specifically for driving highly capacitive or relatively low-impedance loads. They are particularly suitable for implementing buffer registers, input/output (I/O) ports, bidirectional bus drivers, and working registers.

While the latch-enable (LE) input is high, the Q outputs follow the data (D) inputs. When LE is taken low, the Q outputs are latched at the logic levels at the D inputs.

A buffered output-enable (OE\) input can be used to place the eight outputs in either a normal logic state (high or low logic levels) or a high-impedance state. In the high-impedance state, the outputs neither load nor drive the bus lines significantly. The high-impedance state and increased drive provide the capability to drive bus lines without interface or pullup components.

OE\ does not affect the internal operations of the latches. Old data can be retained or new data can be entered while the outputs are in the high-impedance state.

To ensure the high-impedance state during power up or power down, OE\ should be tied to V_{CC} through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

Inputs can be driven from either 3.3-V or 5-V devices. This feature allows the use of these devices as translators in a mixed 3.3-V/5-V system environment.

The SN54LVC573A is characterized for operation over the full military temperature range of -55°C to 125°C. The SN74LVC573A is characterized for operation from -40°C to 85°C.

TECHNICAL DOCUMENTS[▲ Back to Top](#)

To view the following documents, [Acrobat Reader 3.x](#) is required.

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

DATASHEET[▲ Back to Top](#)

Full datasheet in Acrobat PDF: [scas300i.pdf](#) (127 KB) (Updated: 06/15/1998)

Full datasheet in Zipped PostScript: [scas300i.psz](#) (136 KB)

APPLICATION NOTES[▲ Back to Top](#)

View Application Reports for [Digital Logic](#)

- [Bus-Interface Devices With Output-Damping Resistors Or Reduced-Drive Outputs](#) (SCBA012A - Updated: 08/01/1997)
- [CMOS Power Consumption and CPD Calculation](#) (SCAA035B - Updated: 06/01/1997)
- [Implications of Slow or Floating CMOS Inputs](#) (SCBA004C - Updated: 02/01/1998)

- [Input and Output Characteristics of Digital Integrated Circuits](#) (SDYA010 - Updated: 10/01/1996)
- [LVC Characterization Information](#) (SCBA011 - Updated: 12/01/1996)
- [Live Insertion](#) (SDYA012 - Updated: 10/01/1996)
- [Low-Voltage Logic \(LVC\) Designer's Guide](#) (SCBA010 - Updated: 09/01/1996)
- [Migration From 3.3-V To 2.5-V Power Supplies For Logic Devices](#) (SCEA005 - Updated: 12/01/1997)
- [Understanding Advanced Bus-Interface Products Design Guide](#) (SCAA029, 253 KB - Updated: 05/01/1996)

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- [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, 167 KB - Updated: 07/28/2000)
- [More Power In Less Space - Technical Article](#) (SCAU001A, 850 KB - Updated: 03/01/1996)

SAMPLES[▲ Back to Top](#)

<u>ORDERABLE DEVICE</u>	<u>PACKAGE</u>	<u>PINS</u>	<u>TEMP (°C)</u>	<u>STATUS</u>	<u>SAMPLES</u>
SN74LVC573ADW	<u>DW</u>	20	-40 TO 85	ACTIVE	Request Samples
SN74LVC573APWLE	<u>PW</u>	20	-40 TO 85	OBSOLETE	
SN74LVC573APWR	<u>PW</u>	20	-40 TO 85	ACTIVE	Request Samples

PRICING/AVAILABILITY[▲ Back to Top](#)

<u>ORDERABLE DEVICE</u>	<u>PACKAGE</u>	<u>PINS</u>	<u>TEMP (°C)</u>	<u>STATUS</u>	<u>BUDGETARY PRICE US\$/UNIT QTY=1000+</u>	<u>PACK QTY</u>	<u>PRICING/AVAILABILITY</u>
SN74LVC573ADBLE	<u>DB</u>	20	-40 TO 85	OBSOLETE			
SN74LVC573ADBR	<u>DB</u>	20	-40 TO 85	ACTIVE	0.59	2000	Check stock or order
SN74LVC573ADGVR	<u>DGV</u>	20	-40 TO 85	ACTIVE	0.75	2000	Check stock or order
SN74LVC573ADW	<u>DW</u>	20	-40 TO 85	ACTIVE	0.59	25	Check stock or order
SN74LVC573ADWR	<u>DW</u>	20	-40 TO 85	ACTIVE	0.69	2000	Check stock or order
SN74LVC573AN	<u>N</u>	20	-40 TO 85	ACTIVE	0.59	20	Check stock or order
SN74LVC573APWLE	<u>PW</u>	20	-40 TO 85	OBSOLETE			
SN74LVC573APWR	<u>PW</u>	20	-40 TO 85	ACTIVE	0.59	2000	Check stock or order

MODELS[▲ Back to Top](#)

- [Octal Transparent D-Type Latches With 3-State Outputs](#) (SCLM056, 311 KB - Updated: 08/04/2000)
- [Octal Transparent D-Type Latches With 3-State Outputs](#) (SCLM056, 55 KB, ZIP - Updated: 08/04/2000)

Table Data Updated on: 11/17/2000

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