

SN54LVTH573, SN74LVTH573 3.3-V ABT OCTAL TRANSPARENT D-TYPE LATCHES WITH 3-STATE OUTPUTS

SCBS687F – MAY 1997 – REVISED JULY 2001

- Support Mixed-Mode Signal Operation (5-V Input and Output Voltages With 3.3-V V_{CC})
- Support Unregulated Battery Operation Down to 2.7 V
- Typical V_{OLP} (Output Ground Bounce) <0.8 V at $V_{CC} = 3.3$ V, $T_A = 25^\circ\text{C}$
- I_{off} and Power-Up 3-State Support Hot Insertion
- Bus Hold on Data Inputs Eliminates the Need for External Pullup/Pulldown Resistors
- Latch-Up Performance Exceeds 500 mA Per JESD 17
- ESD Protection Exceeds JESD 22
 - 2000-V Human-Body Model (A114-A)
 - 200-V Machine Model (A115-A)

description

These octal latches are designed specifically for low-voltage (3.3-V) V_{CC} operation, but with the capability to provide a TTL interface to a 5-V system environment.

The eight latches of the 'LVTH573 devices are transparent D-type latches. 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 set up 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 need for interface or pullup components.

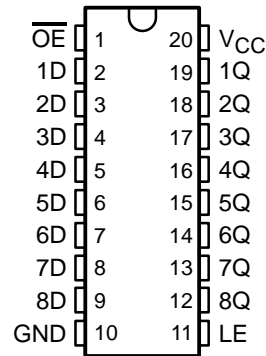
\overline{OE} does not affect the internal operations of the latches. Old data can be retained or new data can be entered while the outputs are in the high-impedance state.

When V_{CC} is between 0 and 1.5 V, the devices are in the high-impedance state during power up or power down. However, to ensure the high-impedance state above 1.5 V, \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.

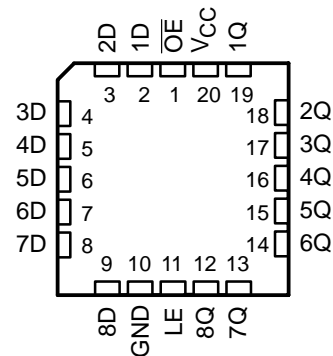
These devices are fully specified for hot-insertion applications using I_{off} and power-up 3-state. The I_{off} circuitry disables the outputs, preventing damaging current backflow through the devices when they are powered down. The power-up 3-state circuitry places the outputs in the high-impedance state during power up and power down, which prevents driver conflict.

Active bus-hold circuitry is provided to hold unused or floating data inputs at a valid logic level. Use of pullup or pulldown resistors with the bus-hold circuitry is not recommended.

SN54LVTH573 . . . J OR W PACKAGE
SN74LVTH573 . . . DB, DW, OR PW PACKAGE
(TOP VIEW)



SN54LVTH573 . . . FK PACKAGE
(TOP VIEW)



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**TEXAS
INSTRUMENTS**

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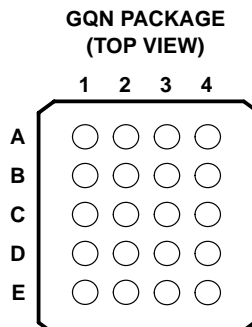
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SN54LVTH573, SN74LVTH573

3.3-V ABT OCTAL TRANSPARENT D-TYPE LATCHES

WITH 3-STATE OUTPUTS

SCBS687F – MAY 1997 – REVISED JULY 2001



terminal assignments

	1	2	3	4
A	1D	\overline{OE}	V _{CC}	1Q
B	3D	3Q	2D	2Q
C	5D	4D	5Q	4Q
D	7D	7Q	6D	6Q
E	GND	8D	LE	8Q

ORDERING INFORMATION

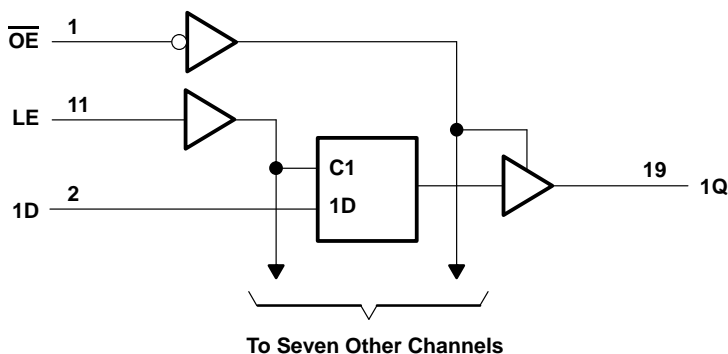
T _A	PACKAGE†		ORDERABLE PART NUMBER	TOP-SIDE MARKING
-40°C to 85°C	SOIC – DW	Tube	SN74LVTH573DW	LVTH573
		Tape and reel	SN74LVTH573DWR	
	SSOP – DB	Tape and reel	SN74LVTH573DBR	LXH573
	TSSOP – PW	Tape and reel	SN74LVTH573PWR	LXH573
-55°C to 125°C	VFBGA – GQN	Tape and reel	SN74LVTH573GQNR	LXH573
	CDIP – J	Tube	SNJ54LVTH573J	SNJ54LVTH573J
	CFP – W	Tube	SNJ54LVTH573W	SNJ54LVTH573W
	LCCC – FK	Tube	SNJ54LVTH573FK	SNJ54LVTH573FK

† Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.

FUNCTION TABLE (each latch)

INPUTS			OUTPUT
\overline{OE}	LE	D	Q
L	H	H	H
L	H	L	L
L	L	X	Q ₀
H	X	X	Z

logic diagram (positive logic)



Pin numbers shown are for the DB, DW, FK, J, PW, and W packages.

SN54LVTH573, SN74LVTH573 3.3-V ABT OCTAL TRANSPARENT D-TYPE LATCHES WITH 3-STATE OUTPUTS

SCBS687F – MAY 1997 – REVISED JULY 2001

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

Supply voltage range, V_{CC}	–0.5 V to 4.6 V
Input voltage range, V_I (see Note 1)	–0.5 V to 7 V
Voltage range applied to any output in the high-impedance or power-off state, V_O (see Note 1)	–0.5 V to 7 V
Voltage range applied to any output in the high state, V_O (see Note 1)	–0.5 V to $V_{CC} + 0.5$ V
Current into any output in the low state, I_O : SN54LVTH573	96 mA
SN74LVTH573	128 mA
Current into any output in the high state, I_O (see Note 2): SN54LVTH573	48 mA
SN74LVTH573	64 mA
Input clamp current, I_{IK} ($V_I < 0$)	–50 mA
Output clamp current, I_{OK} ($V_O < 0$)	–50 mA
Package thermal impedance, θ_{JA} (see Note 3): DB package	70°C/W
DW package	58°C/W
GQN package	76°C/W
PW package	83°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 and output negative-voltage ratings may be exceeded if the input and output clamp-current ratings are observed.
 2. This current flows only when the output is in the high state and $V_O > V_{CC}$.
 3. The package thermal impedance is calculated in accordance with JESD 51-7.

recommended operating conditions (see Note 4)

		SN54LVTH573		SN74LVTH573		UNIT
		MIN	MAX	MIN	MAX	
V_{CC}	Supply voltage	2.7	3.6	2.7	3.6	V
V_{IH}	High-level input voltage	2		2		V
V_{IL}	Low-level input voltage		0.8		0.8	V
V_I	Input voltage		5.5		5.5	V
I_{OH}	High-level output current		–24		–32	mA
I_{OL}	Low-level output current		48		64	mA
$\Delta t/\Delta v$	Input transition rise or fall rate	Outputs enabled			10	ns/V
$\Delta t/\Delta V_{CC}$	Power-up ramp rate	200		200		μs/V
T_A	Operating free-air temperature	–55	125	–40	85	°C

NOTE 4: All unused control 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.



SN54LVTH573, SN74LVTH573

3.3-V ABT OCTAL TRANSPARENT D-TYPE LATCHES

WITH 3-STATE OUTPUTS

SCBS687F – MAY 1997 – REVISED JULY 2001

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

PARAMETER	TEST CONDITIONS		SN54LVTH573			SN74LVTH573			UNIT	
			MIN	TYP†	MAX	MIN	TYP†	MAX		
V_{IK}	$V_{CC} = 2.7\text{ V}$, $I_I = -18\text{ mA}$		-1.2			-1.2			V	
V_{OH}	$V_{CC} = 2.7\text{ V to }3.6\text{ V}$, $I_{OH} = -100\text{ }\mu\text{A}$		$V_{CC}-0.2$			$V_{CC}-0.2$			V	
	$V_{CC} = 2.7\text{ V}$, $I_{OH} = -8\text{ mA}$		2.4			2.4				
	$V_{CC} = 3\text{ V}$	$I_{OH} = -24\text{ mA}$	2			2				
V_{OL}	$V_{CC} = 2.7\text{ V}$	$I_{OL} = 100\text{ }\mu\text{A}$	0.2			0.2			V	
		$I_{OL} = 24\text{ mA}$	0.5			0.5				
	$V_{CC} = 3\text{ V}$	$I_{OL} = 16\text{ mA}$	0.4			0.4				
		$I_{OL} = 32\text{ mA}$	0.5			0.5				
		$I_{OL} = 48\text{ mA}$	0.55			0.55				
I_I	$V_{CC} = 0\text{ or }3.6\text{ V}$, $V_I = 5.5\text{ V}$		10			10			μA	
	Control inputs	$V_{CC} = 3.6\text{ V}$, $V_I = V_{CC}\text{ or GND}$	± 1			± 1				
	Data inputs	$V_{CC} = 3.6\text{ V}$	$V_I = V_{CC}$	1			1			
$V_I = 0$			-5			-5				
I_{off}	$V_{CC} = 0$, $V_I\text{ or }V_O = 0\text{ to }4.5\text{ V}$					± 100			μA	
$I_{I(hold)}$	Data inputs	$V_{CC} = 3\text{ V}$	$V_I = 0.8\text{ V}$	75			75			μA
			$V_I = 2\text{ V}$	-75			-75			
		$V_{CC} = 3.6\text{ V}^\ddagger$, $V_I = 0\text{ to }3.6\text{ V}$				± 500				
I_{OZH}	$V_{CC} = 3.6\text{ V}$, $V_O = 3\text{ V}$		5			5			μA	
I_{OZL}	$V_{CC} = 3.6\text{ V}$, $V_O = 0.5\text{ V}$		-5			-5			μA	
I_{OZPU}	$V_{CC} = 0\text{ to }1.5\text{ V}$, $V_O = 0.5\text{ V to }3\text{ V}$, OE = don't care		$\pm 100^*$			± 100			μA	
I_{OZPD}	$V_{CC} = 1.5\text{ V to }0$, $V_O = 0.5\text{ V to }3\text{ V}$, OE = don't care		$\pm 100^*$			± 100			μA	
I_{CC}	$V_{CC} = 3.6\text{ V}$, $I_O = 0$, $V_I = V_{CC}\text{ or GND}$	Outputs high	0.19			0.19			mA	
		Outputs low	5			5				
		Outputs disabled	0.19			0.19				
ΔI_{CC}^\S	$V_{CC} = 3\text{ V to }3.6\text{ V}$, One input at $V_{CC} - 0.6\text{ V}$, Other inputs at $V_{CC}\text{ or GND}$		0.2			0.2			mA	
C_i	$V_I = 3\text{ V or }0$		3			3			pF	
C_o	$V_O = 3\text{ V or }0$		7			7			pF	

*On products compliant to MIL-PRF-38535, this parameter is not production tested.

† All typical values are at $V_{CC} = 3.3\text{ V}$, $T_A = 25^\circ\text{C}$.

‡ This is the bus-hold maximum dynamic current. It is the minimum overdrive current required to switch the input from one state to another.

§ This is the increase in supply current for each input that is at the specified TTL voltage level rather than V_{CC} or GND.



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SCBS687F – MAY 1997 – REVISED JULY 2001

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

	SN54LVTH573				SN74LVTH573				UNIT
	V _{CC} = 3.3 V ± 0.3 V		V _{CC} = 2.7 V		V _{CC} = 3.3 V ± 0.3 V		V _{CC} = 2.7 V		
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t _w	Pulse duration, LE high		3	3	3	3	3	3	ns
t _{su}	Setup time, data before LE↓		0.7	0.6	0.7	0.6	0.7	0.6	ns
t _h	Hold time, data after LE↓		1.5	1.7	1.5	1.7	1.5	1.7	ns

switching characteristics over recommended free-air temperature, C_L = 50 pF (unless otherwise noted) (see Figure 1)

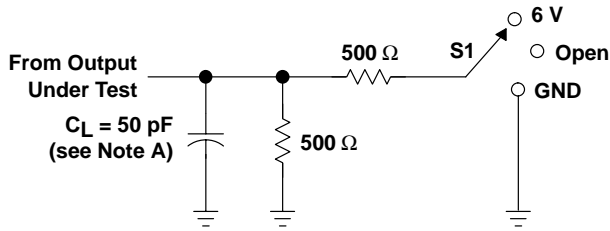
PARAMETER	FROM (INPUT)	TO (OUTPUT)	SN54LVTH573				SN74LVTH573				UNIT
			V _{CC} = 3.3 V ± 0.3 V		V _{CC} = 2.7 V		V _{CC} = 3.3 V ± 0.3 V		V _{CC} = 2.7 V		
			MIN	MAX	MIN	MAX	MIN	TYP†	MAX	MIN	
t _{PLH}	D	Q	1.4	4.1	4.7		1.5	2.6	3.9	4.5	
t _{PHL}			1.4	4.5	4.8		1.5	2.9	3.9	4.5	
t _{PLH}	LE	Q	1	4.4	5.4		1.9	2.9	4.2	4.9	
t _{PHL}			1.4	4.4	5.1		1.9	2.9	4.2	4.9	
t _{PZH}	\overline{OE}	Q	1.4	5.2	6.2		1.5	3.2	5.1	5.9	
t _{PZL}			1.4	5.2	6.2		1.5	3.9	5.1	5.9	
t _{PHZ}	\overline{OE}	Q	1.2	5.4	5.7		2	3.5	4.9	5.5	
t _{PLZ}			1	5.2	5.2		2	3.2	4.6	4.9	

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

SN54LVTH573, SN74LVTH573 3.3-V ABT OCTAL TRANSPARENT D-TYPE LATCHES WITH 3-STATE OUTPUTS

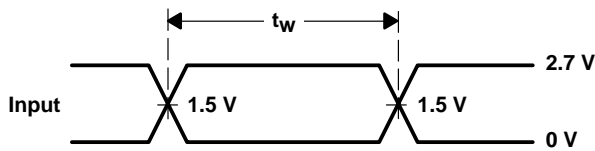
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PARAMETER MEASUREMENT INFORMATION

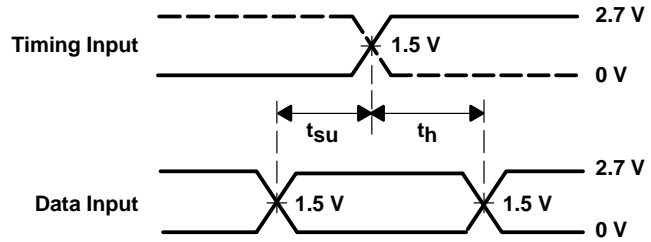


LOAD CIRCUIT

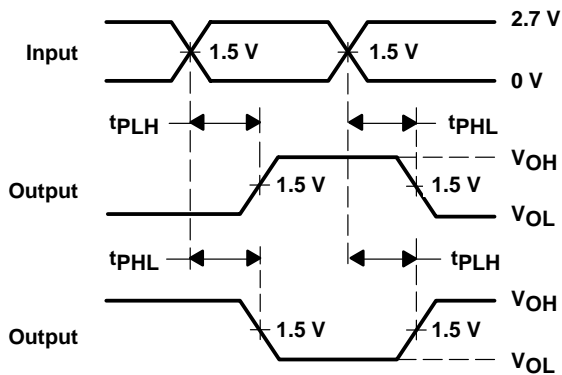
TEST	S1
t_{PLH}/t_{PHL}	Open
t_{PLZ}/t_{PZL}	6 V
t_{PHZ}/t_{PZH}	GND



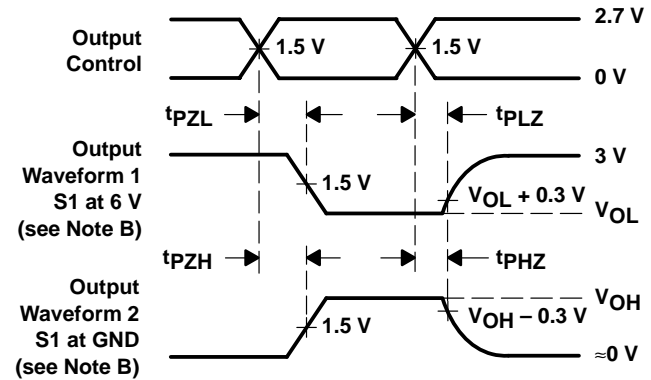
VOLTAGE WAVEFORMS
PULSE DURATION



VOLTAGE WAVEFORMS
SETUP AND HOLD TIMES



VOLTAGE WAVEFORMS
PROPAGATION DELAY TIMES
INVERTING AND NONINVERTING OUTPUTS



VOLTAGE WAVEFORMS
ENABLE AND DISABLE TIMES
LOW- AND HIGH-LEVEL ENABLING

- 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: $PRR \leq 10 \text{ MHz}$, $Z_O = 50 \Omega$, $t_r \leq 2.5 \text{ ns}$, $t_f \leq 2.5 \text{ ns}$.
 D. The outputs are measured one at a time with one transition per measurement.

Figure 1. Load Circuit and Voltage Waveforms

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| [APPLICATION NOTES](#) | [RELATED DOCUMENTS](#) | [MODELS](#)

PRODUCT SUPPORT: [TRAINING](#)

SN74LVTH573, 3.3-V ABT Octal Transparent D-Type Latches With 3-State Outputs

DEVICE STATUS: **ACTIVE**

PARAMETER NAME	SN54LVTH573	SN74LVTH573
Voltage Nodes (V)	3.3, 2.7	3.3, 2.7
Vcc range (V)	2.7 to 3.6	
Output Drive (mA)	-24/48	
Static Current	5 mA	
th (ns)	1.5	
tpd max (ns)	4.5	
tsu (ns)	0.7	

FEATURES

[▲ Back to Top](#)

- Support Mixed-Mode Signal Operation (5-V Input and Output Voltages With 3.3-V V_{CC})
- Support Unregulated Battery Operation Down to 2.7 V
- Typical V_{OLP} (Output Ground Bounce)
 - < 0.8 V at $V_{CC} = 3.3$ V, $T_A = 25^\circ\text{C}$
- I off and Power-Up 3-State Support Hot Insertion
- Bus Hold on Data Inputs Eliminates the Need for External Pullup/Pulldown Resistors
- Latch-Up Performance Exceeds 500 mA Per JESD 17
- ESD Protection Exceeds JESD 22
 - 2000-V Human-Body Model (A114-A)
 - 200-V Machine Model (A115-A)

DESCRIPTION

[▲ Back to Top](#)

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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.

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TECHNICAL DOCUMENTS

[▲Back to Top](#)

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DATASHEET

[▲Back to Top](#)

Full datasheet in Acrobat PDF: [sn74lvth573.pdf](#) (102 KB, Rev.F) (Updated: 07/26/2001)

APPLICATION NOTES

[▲Back to Top](#)

View Application Notes for [Digital Logic](#)

- [16-Bit Widebus Logic Families in 56-Ball, 0.65-mm Pitch Very Thin Fine-Pitch BGA \(Rev. B\)](#) (SZZA029B - Updated: 05/22/2002)
- [Bus-Interface Devices With Output-Damping Resistors Or Reduced-Drive Outputs \(Rev. A\)](#) (SCBA012A - Updated: 08/01/1997)
- [Evaluation of Nickel/Palladium/Gold-Finished Surface-Mount Integrated Circuits](#) (SZZA026 - Updated: 06/20/2001)
- [Implications of Slow or Floating CMOS Inputs \(Rev. C\)](#) (SCBA004C - Updated: 02/01/1998)
- [Input and Output Characteristics of Digital Integrated Circuits](#) (SDYA010 - Updated: 10/01/1996)
- [LVT Family Characteristics \(Rev. A\)](#) (SCEA002A - Updated: 03/01/1998)
- [LVT-to-LVTH Conversion](#) (SCEA010 - Updated: 12/08/1998)
- [Live Insertion](#) (SDYA012 - Updated: 10/01/1996)
- [Low Voltage Logic Families \(Rev. A\)](#) (SCVAE01A - Updated: 06/01/1998)
- [Power-Up 3-State \(PU3S\) Circuits in TI Standard Logic Devices](#) (SZZA033 - Updated: 05/10/2002)
- [Quad Flatpack No-Lead Logic Packages \(Rev. A\)](#) (SCBA017A - Updated: 09/10/2002)
- [Understanding Advanced Bus-Interface Products Design Guide](#) (SCAA029, 253 KB - Updated: 05/01/1996)

RELATED DOCUMENTS

[▲Back to Top](#)

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- [Advanced Bus Interface Logic Selection Guide](#) (SCYT126, 453 KB - Updated: 01/09/2001)
- [Logic Reference Guide](#) (SCYB004, 1032 KB - Updated: 10/23/2001)
- [Logic Selection Guide Second Half 2002 \(Rev. R\)](#) (SDYU001R, 4274 KB - Updated: 07/19/2002)
- [Military Low Voltage Solutions](#) (SGYN139, 103 KB - Updated: 04/04/2001)
- [Military Semiconductors Selection Guide 2002 \(Rev. B\)](#) (SGYC003B, 1648 KB - Updated: 04/22/2002)

SAMPLES

[▲Back to Top](#)

ORDERABLE DEVICE	PACKAGE INDUSTRY (TI)	PINS	TEMP (°C)	STATUS	PRODUCT CONTENT	SAMPLES
SN74LVTH573DBR	SSOP (DB)	20	-40 TO 85	ACTIVE	View Product Content	Request Samples
SN74LVTH573DW	SOP (DW)	20	-40 TO 85	ACTIVE	View Product Content	Request Samples
SN74LVTH573GQNR	VFBGA (GQN)	20		ACTIVE	View Product Content	Request Samples
SN74LVTH573NSR	SOP (NS)	20		ACTIVE	View Product Content	Request Samples
SN74LVTH573PWR	TSSOP (PW)	20	-40 TO 85	ACTIVE	View Product Content	Request Samples

PRICING/AVAILABILITY/PKG

[▲Back to Top](#)

DEVICE INFORMATION

ORDERABLE DEVICE	STATUS	PACKAGE TYPE PINS	TEMP (°C)	PRODUCT CONTENT	BUDGETARY PRICING QTY SUS	STD PACK QTY
SN74LVTH573DBLE	OBSOLETE	SSOP (DB) 20	-40 TO 85	View Contents	1KU	
SN74LVTH573DBR	ACTIVE	SSOP (DB) 20	-40 TO 85	View Contents	1KU 0.43	2000
SN74LVTH573DW	ACTIVE	SOP (DW) 20	-40 TO 85	View Contents	1KU 0.43	25
SN74LVTH573DWR	ACTIVE	SOP (DW) 20	-40 TO 85	View Contents	1KU 0.43	2000
SN74LVTH573GQNR	ACTIVE	VFBGA (GQN) 20		View Contents	1KU 0.48	1000
SN74LVTH573NSR	ACTIVE	SOP (NS) 20		View Contents	1KU 0.63	2000
SN74LVTH573PWLE	OBSOLETE	TSSOP (PW) 20	-40 TO 85	View Contents	1KU	
SN74LVTH573PWR	ACTIVE	TSSOP (PW) 20	-40 TO 85	View Contents	1KU 0.43	2000

**TI INVENTORY STATUS
AS OF 3:00 PM GMT, 26 Sep 2002**

IN STOCK	IN PROGRESS QTY DATE	LEAD TIME
N/A*		Not Available
N/A*	156 30 Sep	4 WKS
	2000 03 Oct	
	> 10k 14 Oct	
N/A*	9675 19 Sep	4 WKS
	> 10k 11 Oct	
	> 10k 18 Oct	
N/A*	1821 20 Sep	4 WKS
	> 10k 11 Oct	
	> 10k 18 Oct	
2000		4 WKS
N/A*	480 23 Sep	4 WKS
	> 10k 14 Oct	
	> 10k 21 Oct	
N/A*		Not Available
N/A*	> 10k 10 Oct	4 WKS

**REPORTED DISTRIBUTOR INVENTORY
AS OF 3:00 PM GMT, 26 Sep 2002**

DISTRIBUTOR COMPANY REGION	IN STOCK	PURCHASE
DigiKey AMERICA	865	BUY NOW
Avnet AMERICA	700	BUY NOW
Avnet AMERICA	1k	BUY NOW

MODELS
[▲Back to Top](#)

- [IBIS Model of SN74LVTH573](#) (SCBM067, 118 KB - Updated: 03/26/2002)
- [IBIS Model of SN74LVTH573](#) (SCBM067, 21 KB, ZIP - Updated: 03/26/2002)

Table Data Updated on: 9/26/2002

