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January 2008

# 74LVT573, 74LVTH573 Low Voltage Octal Transparent Latch with 3-STATE Outputs

### **Features**

- Input and output interface capability to systems at 5V V<sub>CC</sub>
- Bushold data inputs eliminate the need for external pull-up resistors to hold unused inputs (74LVTH573), also available without bushold feature (74LVT573)
- Live insertion/extraction permitted
- Power Up/Down high impedance provides glitch-free bus loading
- Outputs source/sink -32mA/+64mA
- Functionally compatible with the 74 series 573
- Latch-up performance exceeds 500mA
- ESD performance:
  - Human-body model > 2000V
  - Machine model > 200V
  - Charged-device model > 1000V

# **General Description**

The LVT573 and LVTH573 consist of eight latches with 3-STATE outputs for bus organized system applications. The latches appear transparent to the data when Latch Enable (LE) is HIGH. When LE is low, the data satisfying the input timing requirements is latched. Data appears on the bus when the Output Enable  $(\overline{OE})$  is LOW. When  $\overline{OE}$  is HIGH, the bus output is in the high impedance state.

The LVTH573 data inputs include bushold, eliminating the need for external pull-up resistors to hold unused inputs.

These octal latches are designed for low-voltage (3.3V)  $V_{CC}$  applications, but with the capability to provide a TTL interface to a 5V environment. The LVT573 and LVTH573 are fabricated with an advanced BiCMOS technology to achieve high speed operation similar to 5V ABT while maintaining a low power dissipation.

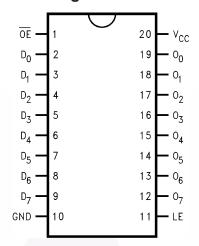
# **Ordering Information**

Order Number	Package Number	Package Description			
74LVT573WM	M20B	20-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-013, 0.300" Wide			
74LVT573SJ	M20D	20-Lead Small Outline Package (SOP), EIAJ TYPE II, 5.3mm Wide			
74LVT573MSA	MSA20	0-Lead Shrink Small Outline Package (SSOP), JEDEC MO-150, 5.3mm Wide			
74LVT573MTC	MTC20	20-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Vide			
74LVTH573WM	M20B	0-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-013, 0.300" Wide			
74LVTH573SJ	M20D	0-Lead Small Outline Package (SOP), EIAJ TYPE II, 5.3mm Wide			
74LVTH573MSA	MSA20	0-Lead Shrink Small Outline Package (SSOP), JEDEC MO-150, 5.3mm Wide			
74LVTH573MTC	MTC20	20-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide			

Device also available in Tape and Reel. Specify by appending suffix letter "X" to the ordering number.

All packages are lead free per JEDEC: J-STD-020B standard.

## **Connection Diagram**



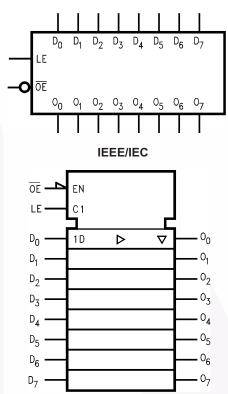
# **Pin Description**

Pin Names	Description
D <sub>0</sub> –D <sub>7</sub>	Data Inputs
LE	Latch Enable Input
ŌĒ	Output Enable Input
O <sub>0</sub> -O <sub>7</sub>	3-STATE Latch Outputs

# **Functional Description**

The LVT573 and LVTH573 contain eight D-type latches with 3-STATE standard outputs. When the Latch Enable (LE) input is HIGH, data on the  $D_n$  inputs enters the latches. In this condition the latches are transparent, i.e., a latch output will change state each time its D-type input changes. When LE is LOW, the latches store the information that was present on the D-type inputs a setup time preceding the HIGH-to-LOW transition of LE. The 3-STATE standard outputs are controlled by the Output Enable  $(\overline{OE})$  input. When  $\overline{OE}$  is LOW, the standard outputs are in the 2-state mode. When  $\overline{OE}$  is HIGH, the standard outputs are in the high impedance mode but this does not interfere with entering new data into the latches.

# **Logic Symbols**



# **Truth Table**

	Outputs		
LE	ŌĒ	D <sub>n</sub>	On
X	Н	Х	Z
Н	L	L	L
Н	L	Н	Н
L	L	X	O <sub>0</sub>

H = HIGH Voltage Level

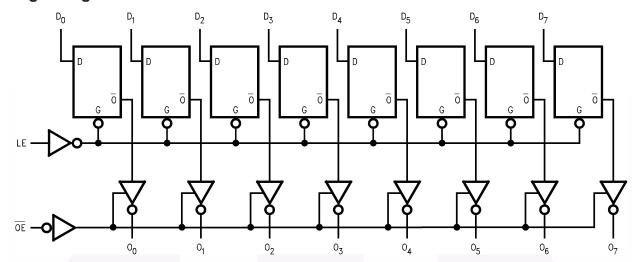
L = LOW Voltage Level

Z = High Impedance

X = Immaterial

O<sub>0</sub> = Previous O<sub>0</sub> before HIGH to LOW transition of Latch Enable

# **Logic Diagram**



Please note that this diagram is provided only for the understanding of logic operations and should not be used to estimate propagation delays.

# **Absolute Maximum Ratings**

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only.

Symbol	Parameter	Rating		
V <sub>CC</sub>	Supply Voltage	-0.5V to +4.6V		
V <sub>I</sub>	DC Input Voltage	-0.5V to +7.0V		
Vo	DC Output Voltage			
	Output in 3-STATE	-0.5V to +7.0V		
	Output in HIGH or LOW State <sup>(1)</sup>	-0.5V to +7.0V		
I <sub>IK</sub>	DC Input Diode Current, V <sub>I</sub> < GND			
I <sub>OK</sub>	DC Output Diode Current, V <sub>O</sub> < GND			
Io	DC Output Current, V <sub>O</sub> > V <sub>CC</sub>			
	Output at HIGH State	64mA		
	Output at LOW State	128mA		
I <sub>CC</sub>	DC Supply Current per Supply Pin	±64mA		
I <sub>GND</sub>	DC Ground Current per Ground Pin	±128mA		
T <sub>STG</sub>	Storage Temperature	−65°C to +150°C		

#### Note:

1. IO Absolute Maximum Rating must be observed.

# **Recommended Operating Conditions**

The Recommended Operating Conditions table defines the conditions for actual device operation. Recommended operating conditions are specified to ensure optimal performance to the datasheet specifications. Fairchild does not recommend exceeding them or designing to absolute maximum ratings.

Symbol	Parameter		Max	Units
V <sub>CC</sub>	Supply Voltage	2.7	3.6	V
VI	Input Voltage	0	5.5	V
I <sub>OH</sub>	HIGH-Level Output Current		-32	mA
I <sub>OL</sub>	LOW-Level Output Current		64	mA
T <sub>A</sub>	Free-Air Operating Temperature	-40	85	°C
Δt / ΔV	Input Edge Rate, $V_{IN} = 0.8V-2.0V$ , $V_{CC} = 3.0V$	0	10	ns/V

### **DC Electrical Characteristics**

Symbol Parameter					T <sub>A</sub> = -4	40°C to +	85°C		
		neter	V <sub>CC</sub> (V)	Conditions	Min.	Typ. <sup>(2)</sup>	Max.	Units	
V <sub>IK</sub>	Input Clamp Di	ode Voltage	2.7	$I_I = -18mA$			-1.2	V	
V <sub>IH</sub>	Input HIGH Voltage		2.7–3.6	$V_0 \le 0.1V$ or	2.0			V	
V <sub>IL</sub>	Input LOW Voltage		2.7–3.6	$V_O \ge V_{CC} - 0.1V$			0.8	V	
V <sub>OH</sub>	Output HIGH V	oltage	2.7–3.6	$I_{OH} = -100 \mu A$	V <sub>CC</sub> -0.2			V	
			2.7	$I_{OH} = -8mA$	2.4			1	
			3.0	$I_{OH} = -32 \text{mA}$	2.0				
V <sub>OL</sub>	Output LOW Vo	oltage	2.7	$I_{OL} = 100 \mu A$			0.2	V	
				I <sub>OL</sub> = 24mA			0.5		
			3.0	I <sub>OL</sub> = 16mA			0.4		
				I <sub>OL</sub> = 32mA			0.5		
				I <sub>OL</sub> = 64mA			0.55		
I(HOLD) (3)	Bushold Input I	Minimum	3.0	V <sub>I</sub> = 0.8V	75			μA	
,	Drive			V <sub>I</sub> = 2.0V	-75				
I <sub>I(OD)</sub> (3)	Bushold Input (	Over-Drive	3.0	(4)	500			μA	
.()	Current to Cha			(5)	-500				
I <sub>I</sub>	Input Current		3.6	V <sub>I</sub> = 5.5V			10	μA	
		Control Pins	3.6	$V_I = 0V \text{ or } V_{CC}$			±1		
		Data Pins	3.6	$V_I = 0V$			-5		
			$V_I = V_{CC}$			1			
I <sub>OFF</sub>	Power Off Leak	kage Current	0	$0V \le V_I \text{ or } V_O \le 5.5V$			±100	μA	
I <sub>PU/PD</sub>	Power up/down 3-STATE Output Current		0–1.5	$V_O = 0.5V \text{ to } 3.0V,$ $V_I = \text{GND or } V_{CC}$			±100	μA	
I <sub>OZL</sub>	3-STATE Outpu Current	ut Leakage	3.6	V <sub>O</sub> = 0.5V			-5	μA	
I <sub>OZH</sub>	3-STATE Outpu Current	ut Leakage	3.6	$V_O = 3.0V$			5	μA	
I <sub>OZH</sub> +	3-STATE Output Leakage Current		3.6	$V_{CC} < V_O \le 5.5V$			10	μA	
I <sub>CCH</sub>	Power Supply Current		3.6	Outputs HIGH			0.19	mA	
I <sub>CCL</sub>	Power Supply Current		3.6	Outputs LOW			5	mA	
I <sub>CCZ</sub>	Power Supply Current		3.6	Outputs Disabled			0.19	mA	
I <sub>CCZ</sub> +	Power Supply Current		3.6	V <sub>CC</sub> ≤ V <sub>O</sub> ≤ 5.5V, Outputs Disabled			0.19	mA	
Δl <sub>CC</sub>	Increase in Pov Current <sup>(6)</sup>	wer Supply	3.6	One Input at V <sub>CC</sub> – 0.6V, Other Inputs at V <sub>CC</sub> or GND			0.2	mA	

#### Notes:

- 2. All typical values are at  $V_{CC} = 3.3V$ ,  $T_A = 25^{\circ}C$ .
- 3. Applies to bushold versions only (74LVTH573).
- 4. An external driver must source at least the specified current to switch from LOW-to-HIGH.
- 5. An external driver must sink at least the specified current to switch from HIGH-to-LOW.
- 6. This is the increase in supply current for each input that is at the specified voltage level rather than  $V_{CC}$  or GND.

# Dynamic Switching Characteristics<sup>(7)</sup>

			Conditions	$T_A = 25^{\circ}C$		2	
Symbol	Parameter	V <sub>CC</sub> (V)	$C_L = 50 pF, R_L = 500 \Omega$	Min.	Тур.	Max.	Units
V <sub>OLP</sub>	Quiet Output Maximum Dynamic V <sub>OL</sub>	3.3	(8)		0.8		V
V <sub>OLV</sub>	Quiet Output Minimum Dynamic V <sub>OL</sub>	3.3	(8)		-0.8		V

### Notes:

- 7. Characterized in SOIC package. Guaranteed parameter, but not tested.
- 8. Max number of outputs defined as (n). n-1 data inputs are driven 0V to 3V. Output under test held LOW.

### **AC Electrical Characteristics**

		$T_A = -40$ °C to +85°C $C_L = 50$ pF, $R_L = 500$ $\Omega$					
		V <sub>CC</sub>	= 3.3V ± 0	0.3V	V <sub>CC</sub> =	= 2.7V	
Symbol	Parameter	Min.	Typ. <sup>(9)</sup>	Max.	Min.	Max.	Units
t <sub>PHL</sub>	Propagation Delay, D <sub>n</sub> to O <sub>n</sub>	1.5		4.4	1.5	4.9	ns
t <sub>PLH</sub>		1.5		4.1	1.5	4.7	
t <sub>PHL</sub>	Propagation Delay, LE to O <sub>n</sub>	1.9		4.4	1.9	4.9	ns
t <sub>PLH</sub>		1.9		4.4	1.9	5.0	
t <sub>PZL</sub>	Output Enable Time	1.5		5.1	1.5	6.6	ns
t <sub>PZH</sub>		1.5		5.1	1.5	5.9	
t <sub>PLZ</sub>	Output Disable Time	2.0		4.6	2.0	4.9	ns
t <sub>PHZ</sub>		2.0		4.9	2.0	5.5	
t <sub>S</sub>	Setup Time, D <sub>n</sub> to LE	0.7			0.6		ns
t <sub>H</sub>	Hold Time, D <sub>n</sub> to LE	1.5			1.7		ns
t <sub>W</sub>	LE Pulse Width	3.0			3.0		ns
t <sub>OSHL</sub> , t <sub>OSLH</sub>	Output to Output Skew <sup>(10)</sup>			1.0		1.0	ns

### Notes:

- 9. All typical values are at  $V_{CC} = 3.3V$ ,  $T_A = 25$ °C.
- 10. Skew is defined as the absolute value of the difference between the actual propagation delay for any two separate outputs of the same device. The specification applies to any outputs switching in the same direction, either HIGH-to-LOW (t<sub>OSHL</sub>) or LOW-to-HIGH (t<sub>OSLH</sub>).

# Capacitance<sup>(11)</sup>

Symbol	Parameter	Conditions	Typical	Units
C <sub>IN</sub>	Input Capacitance	$V_{CC} = Open, V_I = 0V or V_{CC}$	4	pF
C <sub>OUT</sub>	Output Capacitance	$V_{CC} = 3.0V$ , $V_{O} = 0V$ or $V_{CC}$	6	pF

#### Note:

11. Capacitance is measured at frequency f = 1MHz, per MIL-STD-883, Method 3012.

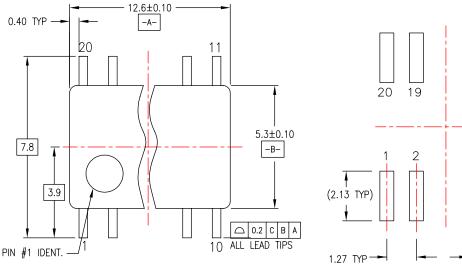
# **Physical Dimensions** 13.00 12.60 11.43 В 9.50 10.65 7.60 10.00 7.40 PIN ONE 0.35 INDICATOR **⊕** 0.25 **M** C B A LAND PATTERN RECOMMENDATION 2.65 MAX SEE DETAIL A 0.33 0.20 △ 0.10 C 0.30 0.10 0.75 SEATING PLANE NOTES: UNLESS OTHERWISE SPECIFIED (R0.10) A) THIS PACKAGE CONFORMS TO JEDEC GAGE PLANE MS-013, VARIATION AC, ISSUE E (R0.10) B) ALL DIMENSIONS ARE IN MILLIMETERS. 0.25 C) DIMENSIONS DO NOT INCLUDE MOLD FLASH OR BURRS. D) CONFORMS TO ASME Y14.5M-1994 0.40 SEATING PLANE E) LANDPATTERN STANDARD: SOIC127P1030X265-20L (1.40)DETAIL A F) DRAWING FILENAME: MKT-M20BREV3

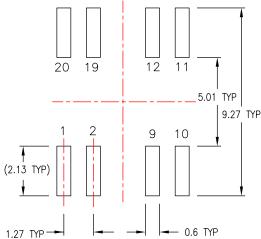
Figure 1. 20-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-013, 0.300" Wide

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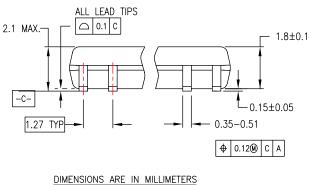
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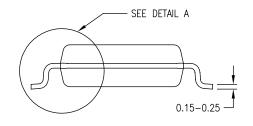
# Physical Dimensions (Continued)





LAND PATTERN RECOMMENDATION





# NOTES:

- A. CONFORMS TO EIAJ EDR-7320 REGISTRATION, ESTABLISHED IN DECEMBER, 1998.

  B. DIMENSIONS ARE IN MILLIMETERS.
  C. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH, AND TIE BAR EXTRUSIONS.

7° TYP GAGE PLANE 0.25 0°-8° TYF 0.60±0.15 SEATING PLANE 1.25 -DETAIL A

M20DREVC

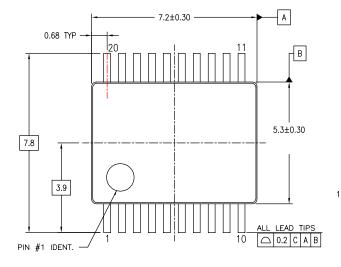
Figure 2. 20-Lead Small Outline Package (SOP), EIAJ TYPE II, 5.3mm Wide

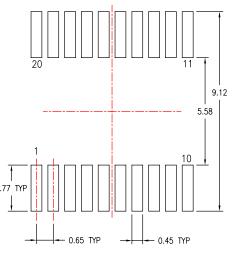
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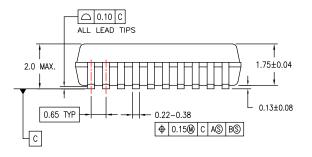
http://www.fairchildsemi.com/packaging/

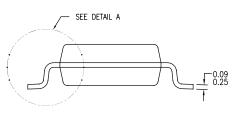
# Physical Dimensions (Continued)





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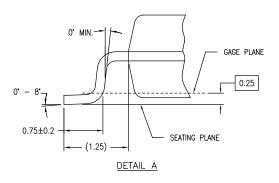




### DIMENSIONS ARE IN MILLIMETERS

### NOTES:

- A. CONFORMS TO JEDEC REGISTRATION MO-150, VARIATION AE, DATE 1/94.
- B. DIMENSIONS ARE IN MILLIMETERS.
- C. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH, AND TIE BAR EXTRUSIONS.
- D. DIMENSIONS AND TOLERANCES PER ASME Y14.5M 1994.



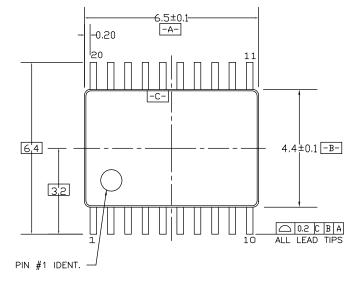
MSA20REVB

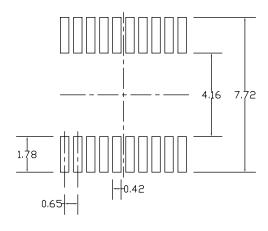
Figure 3. 20-Lead Shrink Small Outline Package (SSOP), JEDEC MO-150, 5.3mm Wide

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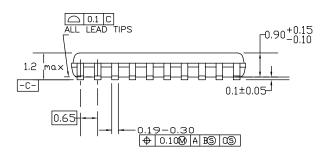
# Physical Dimensions (Continued)





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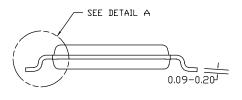
-12.00°

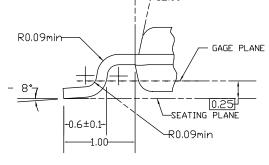


DIMENSIONS ARE IN MILLIMETERS

### NOTES:

- A. CONFORMS TO JEDEC REGISTRATION MD-153, VARIATION AC, REF NOTE 6, DATE 7/93.
- B. DIMENSIONS ARE IN MILLIMETERS.
- C. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLDS FLASH, AND TIE BAR EXTRUSIONS.
- D. DIMENSIONS AND TOLERANCES PER ANSI Y14.5M, 1982.





DETAIL A

### MTC20REVD1

### Figure 4. 20-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide

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