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January 2008

74LVT374, 74LVTH374 Low Voltage Octal D-Type Flip-Flop with 3-STATE Outputs

Features

- Input and output interface capability to systems at 5V V_{CC}
- Bus-Hold data inputs eliminate the need for external pull-up resistors to hold unused inputs (74LVTH374), also available without bushold feature (74LVT374)
- 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 374
- Latch-up performance exceeds 500mA
- ESD performance:
 - Human-body model > 2000V
 - Machine model > 200V
 - Charged-device model > 1000V

General Description

The LVT374 and LVTH374 are high-speed, low-power octal D-type flip-flops featuring separate D-type inputs for each flip-flop and 3-STATE outputs for bus-oriented applications. A buffered Clock (CP) and Output Enable (\overline{OE}) are common to all flip-flops.

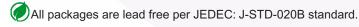
The LVTH374 data inputs include bushold, eliminating the need for external pull-up resistors to hold unused inputs.

These octal flip-flops are designed for low-voltage (3.3V) V_{CC} applications, but with the capability to provide a TTL interface to a 5V environment. The LVT374 and LVTH374 are fabricated with an advanced BiCMOS technology to achieve high speed operation similar to 5V ABT while maintaining low power dissipation.

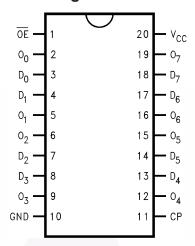
Ordering Information

	Package	
Order Number	Number	Package Description
74LVT374WM	M20B	20-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-013, 0.300" Wide
74LVT374SJ	M20D	20-Lead Small Outline Package (SOP), EIAJ TYPE II, 5.3mm Wide
74LVT374MTC	MTC20	20-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide
74LVTH374WM	M20B	20-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-013, 0.300" Wide
74LVTH374SJ	M20D	20-Lead Small Outline Package (SOP), EIAJ TYPE II, 5.3mm Wide
74LVTH374MTC	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.



Connection Diagram



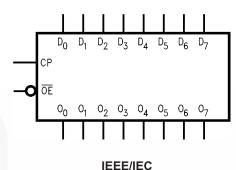
Pin Description

Pin Names	Description
D ₀ –D ₇	Data Inputs
СР	Clock Pulse Input
ŌĒ	3-STATE Output Enable Input
O ₀ -O ₇	3-STATE Outputs

Functional Description

The LVT374 and LVTH374 consist of eight edge-triggered flip-flops with individual D-type inputs and 3-STATE true outputs. The buffered clock and buffered Output Enable are common to all flip-flops. The eight flip-flops will store the state of their individual D inputs that meet the setup and hold time requirements on the LOW-to-HIGH Clock (CP) transition. With the Output Enable $(\overline{\text{OE}})$ LOW, the contents of the eight flip-flops are available at the outputs. When the $\overline{\text{OE}}$ is HIGH, the outputs go to the high impedance state. Operation of the $\overline{\text{OE}}$ input does not affect the state of the flip-flops.

Logic Symbols



Truth Table

	Outputs		
D _n	СР	ŌĒ	O _n
Н	~	L	Н
L	~	L	L
Х	L	L	O _o
Х	Х	Н	Z

H = HIGH Voltage Level

L = LOW Voltage Level

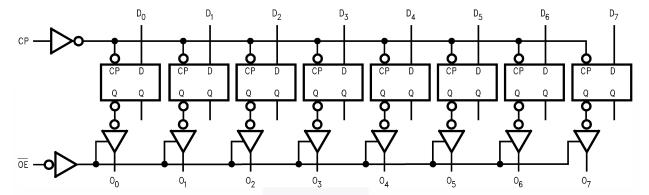
X = Immaterial

Z = High Impedance

✓ = LOW-to-HIGH Transition

O_o = Previous O_o before HIGH-to-LOW of CP

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 _{CC}	Supply Voltage	-0.5V to +4.6V		
V _I	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 ⁽¹⁾	-0.5V to +7.0V		
I _{IK}	DC Input Diode Current, V _I < GND			
I _{OK}	DC Output Diode Current, V _O < GND			
Io	DC Output Current, V _O > V _{CC}			
	Output at HIGH State	64mA		
	Output at LOW State	128mA		
I _{CC}	DC Supply Current per Supply Pin	±64mA		
I _{GND}	DC Ground Current per Ground Pin	±128mA		
T _{STG}	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	Min	Max	Units
V _{CC}	Supply Voltage	2.7	3.6	V
VI	Input Voltage	0	5.5	V
I _{OH}	HIGH-Level Output Current		-32	mA
I _{OL}	LOW-Level Output Current		64	mA
T _A	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

	Parameter				T A =	40°C to +	85°C	
Symbol			V _{CC} (V)	Conditions	Min.	Typ. ⁽²⁾	Max.	Units
V _{IK}	Input Clamp Di	ode Voltage	2.7	$I_I = -18mA$			-1.2	V
V _{IH}	Input HIGH Vol	tage	2.7–3.6	$V_0 \le 0.1V$ or	2.0			V
V _{IL}	Input LOW Voltage		2.7–3.6	$V_O \ge V_{CC} - 0.1V$			0.8	V
V _{OH}	Output HIGH V	oltage/	2.7–3.6	$I_{OH} = -100 \mu A$	V _{CC} -0.2			V
			2.7	$I_{OH} = -8mA$	2.4			
			3.0	$I_{OH} = -32 \text{mA}$	2.0			
V _{OL}	Output LOW Vo	oltage	2.7	$I_{OL} = 100 \mu A$			0.2	V
				I _{OL} = 24mA			0.5	
			3.0	I _{OL} = 16mA			0.4	
				$I_{OL} = 32mA$			0.5	
				$I_{OL} = 64 \text{mA}$			0.55	
I _{I(HOLD)} ⁽³⁾	Bushold Input I	Minimum	3.0	V _I = 0.8V	75			μA
	Drive			V _I = 2.0V	-75			
I _{I(OD)} (3)	Bushold Input		3.0	(4)	500			μA
Current to Cha	nge State		(5)	-500			1	
I _I	Input Current		3.6	V _I = 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 _{OFF}	Power Off Leal	kage Current	0	$0V \le V_I \text{ or } V_O \le 5.5V$			±100	μA
I _{PU/PD}	Power up/dowr Output Current		0–1.5V	$V_O = 0.5V \text{ to } 3.0V,$ $V_I = \text{GND or } V_{CC}$			±100	μA
I _{OZL}	3-STATE Outpu Current	ut Leakage	3.6	$V_O = 0.5V$			-5	μA
I _{OZH}	3-STATE Output Current	ut Leakage	3.6	V _O = 3.0V			5	μА
I _{OZH} +	3-STATE Output Leakage Current		3.6	$V_{CC} < V_O \le 5.5V$			10	μA
I _{CCH}	Power Supply Current		3.6	Outputs HIGH			0.19	mA
I _{CCL}	Power Supply Current		3.6	Outputs LOW			5	mA
I _{CCZ}	Power Supply Current		3.6	Outputs Disabled			0.19	mA
I _{CCZ} +	Power Supply Current		3.6	$V_{CC} \le V_O \le 5.5V$, Outputs Disabled			0.19	mA
Δl _{CC}	Increase in Power Supply Current ⁽⁶⁾		3.6	One Input at V _{CC} – 0.6V, Other Inputs at V _{CC} 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 (74LVTH374).
- 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⁽⁷⁾

			Conditions	T _A = 25°C			
Symbol	Parameter	V _{CC} (V)	$C_L = 50 pF, R_L = 500 \Omega$	Min.	Тур.	Max.	Units
V _{OLP}	Quiet Output Maximum Dynamic V _{OL}	3.3	(8)		0.8		V
V _{OLV}	Quiet Output Minimum Dynamic V _{OL}	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

			$T_A = -40^{\circ}\text{C to } +85^{\circ}\text{C},$ $C_L = 50\text{pF}, R_L = 500\Omega$				
		V _{CC}	$= 3.3V \pm 0$).3V	V _{CC} =	= 2.7V	
Symbol	Parameter	Min.	Typ. ⁽⁹⁾	Max.	Min.	Max.	Units
f _{MAX}	Maximum Clock Frequency	160			160		MHz
t _{PHL}	Propagation Delay, CP to O _n	1.8		4.9	1.8	5.1	ns
t _{PLH}		1.8		4.8	1.8	5.2	
t _{PZL}	Output Enable Time	1.3		5.0	1.3	5.8	ns
t _{PZH}		1.6		4.7	1.6	5.3	
t _{PLZ}	Output Disable Time	1.9		4.6	1.9	4.9	ns
t _{PHZ}		2.0		4.7	2.0	5.0	
t _W	Pulse Width	3.0			3.0		ns
t _S	Setup Time	1.5			2.0		ns
t _H	Hold Time	0.8			0.0		ns

Note:

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

Capacitance⁽¹⁰⁾

Symbol	Parameter	Conditions	Typical	Units
C _{IN}	Input Capacitance	$V_{CC} = 0V$, $V_I = 0V$ or V_{CC}	3	pF
C _{OUT}	Output Capacitance	$V_{CC} = 3.0V$, $V_{O} = 0V$ or V_{CC}	5	pF

Note:

10. 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 0.25 × 45° 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

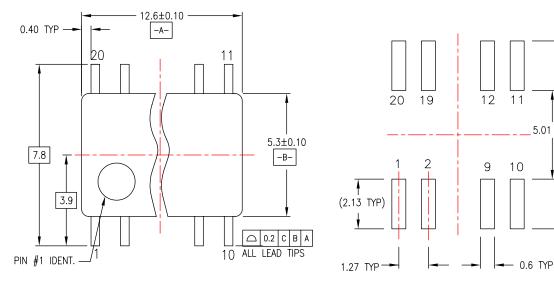
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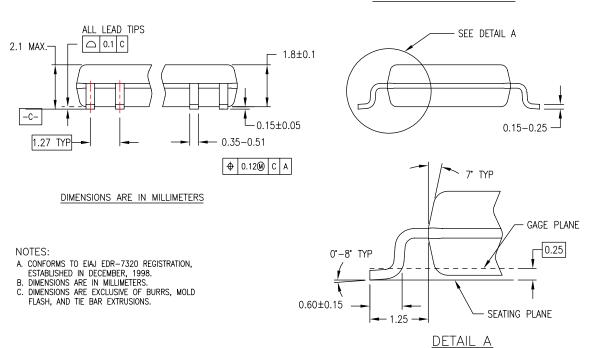
5.01 TYP

9.27 TYP

Physical Dimensions (Continued)



LAND PATTERN RECOMMENDATION



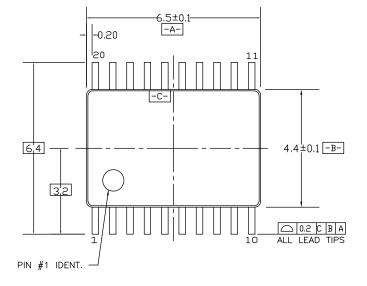
M20DREVC

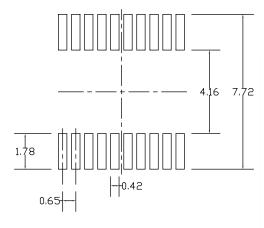
Figure 2. 20-Lead Small Outline Package (SOP), EIAJ TYPE II, 5.3mm Wide

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Physical Dimensions (Continued)





LAND PATTERN RECOMMENDATION

0.09-0.20

SEE DETAIL A

DIMENSIONS ARE IN MILLIMETERS

R0.09min GAGE PLANE - 8°7 - 0.6±0.1- SEATING PLANE R0.09min

DETAIL A

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.

MTC20REVD1

Figure 3. 20-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide

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