L W- CMOS O T L

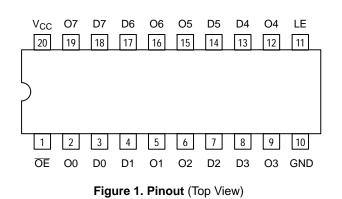
With 5 V–Tolerant Inputs and Outputs (3–State, Non–Inverting)

MC74LC 373

The MC74LCX373 is a high performance, non-inverting octal transparent latch operating from a 2.3 to 3.6 V supply. High impedance TTL compatible inputs significantly reduce current loading to input drivers while TTL compatible outputs offer improved switching noise performance. A V_I specification of 5.5 V allows MC74LCX373 inputs to be safely driven from 5 V devices.

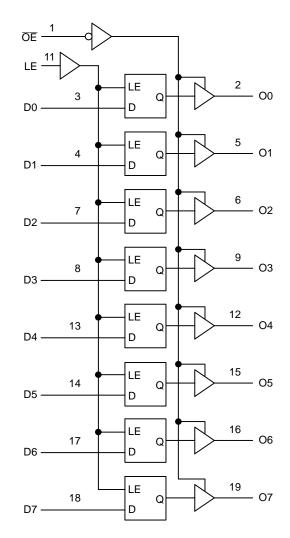
The MC74LCX373 contains 8 D-type latches with 3-state outputs. When the Latch Enable (LE) input is HIGH, data on the Dn inputs enters the latches. In this condition, the latches are transparent, i.e., a latch output will change state each time its D input changes. When

LE is LOW, the latches store the information th9(sign7(laith eresch)]Dn input-.0087 959 Tw81nput driversgnie p(la1gh)ap(la1gh)setupts D is



PIN NAMES

PINS	FUNCTION
OE	Output Enable Input
LE	Latch Enable Input
D0-D7	Data Inputs
00–07	3–State Latch Outputs





TRUTH TABLE						
	INPUTS		OUTPUTS			
OE	LE	Dn	On	OPERATING MODE		
L	H H	H L	H L	Transparent (Latch Disabled); Read Latch		
L L	L	h I	H L	Latched (Latch Enabled) Read Latch		
L	L	Х	NC	Hold; Read Latch		
Н	L	Х	Z	Hold; Disabled Outputs		
H H	H H	H L	Z Z	Transparent (Latch Disabled); Disabled Outputs		
H H	L	h I	Z Z	Latched (Latch Enabled); Disabled Outputs		

Н High Voltage Level =

High Voltage Level One Setup Time Prior to the Latch Enable High-to-Low Transition h =

Low Voltage Level L =

= Low Voltage Level One Setup Time Prior to the Latch Enable High-to-Low Transition L

NC = No Change, State Prior to the Latch Enable High-to-Low Transition

Х = High or Low Voltage Level or Transitions are Acceptable

Ζ = High Impedance State

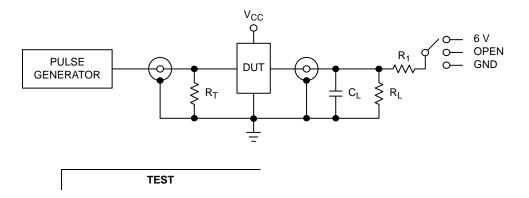
For I_{CC} Reasons DO NOT FLOAT Inputs

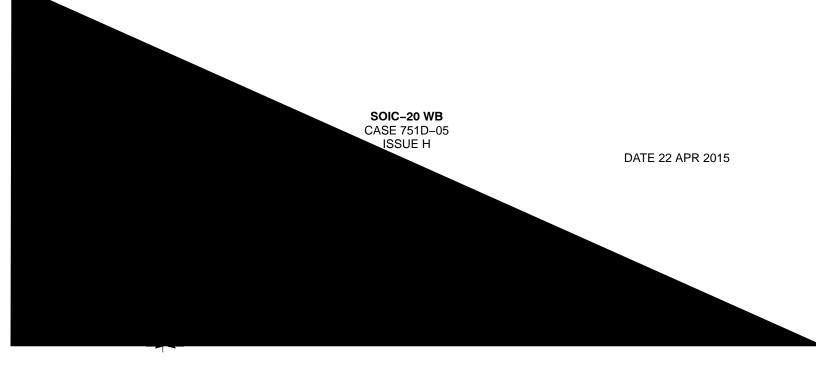
DC ELECTRICAL CHARACTERISTICS

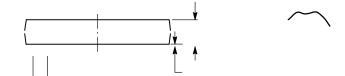
			T,
Symbol	Characteristic	Condition	
V _{IH}	HIGH Level Input Voltage (Note 2)	$2.3~\text{V} \leq \text{V}_{\text{CC}} \leq 2.7~\text{V}$	
		$2.7~\text{V} \leq \text{V}_{\text{CC}} \leq 3.6~\text{V}$	
VIL	LOW Level Input Voltage (Note 2)	$2.3 V \le V_{CC} V$	•

DYNAMIC SWITCHING CHARACTERISTICS

			T _A = +25°C			
Symbol	Characteristic	Condition	Min	Тур	Max	Units
V _{OLP}	Dynamic LOW Peak Voltage (Note 4)	$ \begin{array}{l} {\sf V}_{CC} = 3.3 \; {\sf V}, \; {\sf C}_{L} = 50 \; {\sf pF}, \; {\sf V}_{IH} = 3.3 \; {\sf V}, \; {\sf V}_{IL} = 0 \; {\sf V} \\ {\sf V}_{CC} = 2.5 \; {\sf V}, \; {\sf C}_{L} = 30 \; {\sf pF}, \; {\sf V}_{IH} = 2.5 \; {\sf V}, \; {\sf V}_{IL} = 0 \; {\sf V} \end{array} $		0.8 0.6		V
V _{OLV}	Dynamic LOW Valley Voltage (Note 4)	V_{CC} = 3.3 V, C_L = 50 pF, V_{IH} = 3.3 V, V_{IL} = 0 V V_{CC} = 2.5 V, C_L = 30 pF, V_{IH} = 2.5 V, V_{IL} = 0 V V	-64.271	.680–33	24.888	ref426.18 ⁻









TSSOP-20 WB CASE 948E ISSUE D

DATE 17 FEB 2016

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