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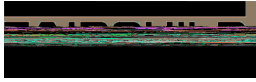


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June 1993
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74LVX273

Low Voltage Octal D-Type Flip-Flop

General Description

Pb-Free package available. The LVX273 has eight edge-triggered D-type flip-flops with independent D inputs and Q outputs. The common buffered Clock (CP) and Master Reset (MR) input load and reset (clear) all flip-flops simultaneously.

The register is fully edge-triggered. The state of each D input, one setup time before the LOW-to-HIGH clock transition, is transferred to the corresponding flip-flop's Q output.

All outputs will be forced LOW independently of Clock or Data inputs by a LOW voltage level on the MR input. The device is useful for applications where the true output only is required and the Clock and Master Reset are common to all storage elements. The inputs tolerate up to 7V allowing interface of 5V systems to 3V systems.

Features

- Input voltage translation from 5V to 3V

Logic Symbols

IEEE/IEC

Connection Diagram

Truth Table

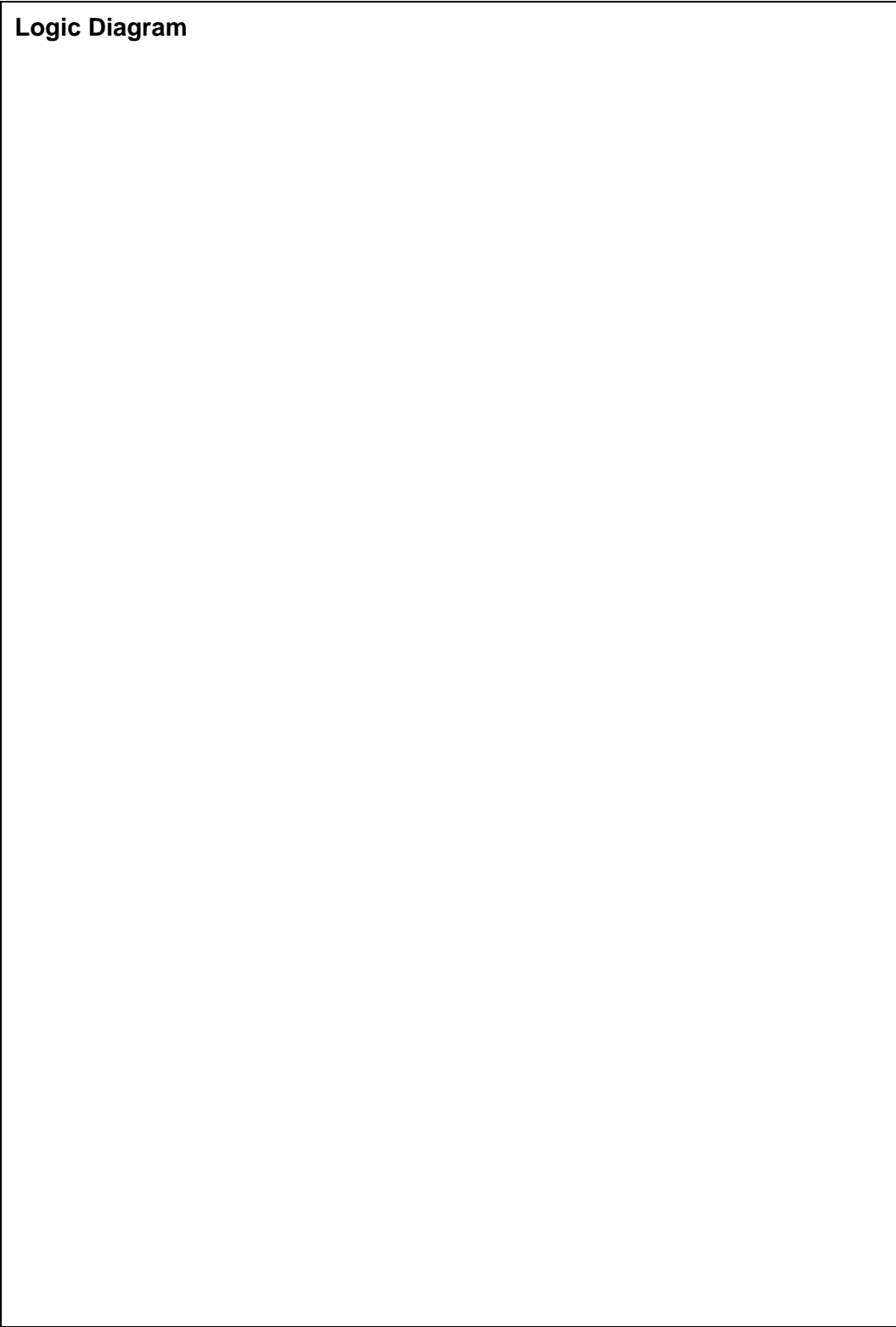
Pin Descriptions

H = HIGH Voltage Level
L = LOW Voltage Level
X = Immaterial

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Logic Diagram



AC Electrical Characteristics

Symbol	Parameter	V _{CC} (V)	T _A = +25°C			T _A = -40°C to +85°C		Units	C _L (pF)
			Min	Typ	Max	Min	Max		
t _{PLH}	Propagation	2.4	Tc	[(a1 Tf 0.4 0 TD (C)T] 2.135[25.46n(o)-0.344u68 TD 0 Tc (t)T] 851[[5.(W0314u)19.1(ati)5.15 c)-11.3(a)0.2(lc)-11.3(u)-22(l)-0 0 83(

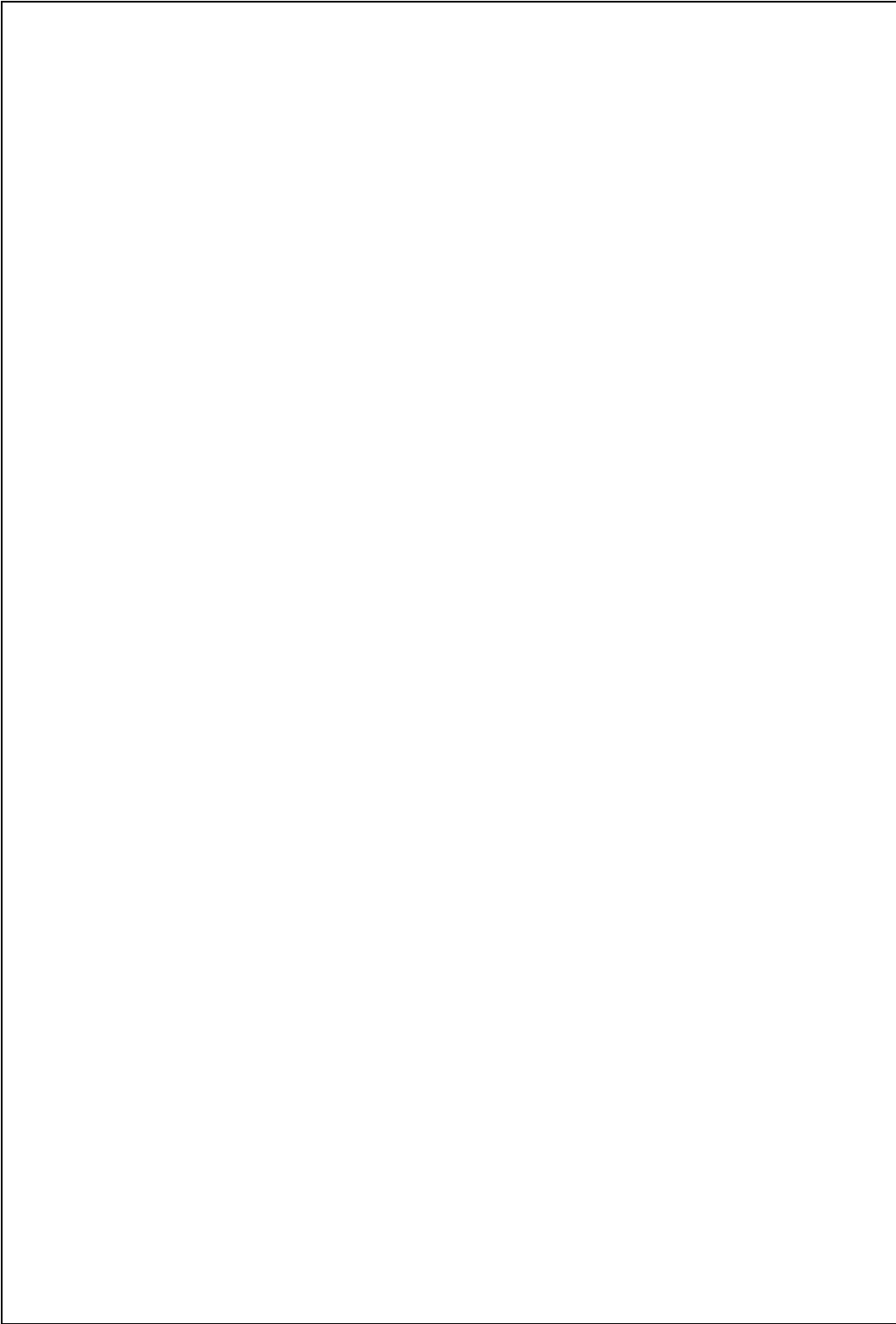
Note 4: Parameter guaranteed by design. $t_{OSLH} = |t_{PLHm} - t_{PLHn}|$, $t_{OSHL} = |t_{PHLm} - t_{PHLn}|$

Capacitance

Note 5: C_{PD} is defined as the value of the internal equivalent capacitance which is calculated from the operating current consumption without load.

74LVX273

Physical Dimensions



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