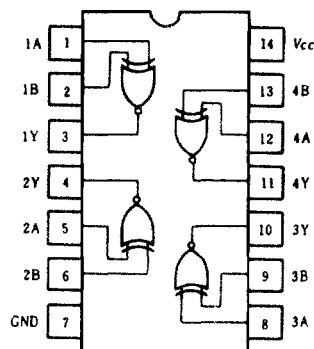


FEATURES

- High Speed Operation: $t_{pd}=12.5\text{ns typ.}$ ($C_L=50\text{pF}$)
- High Output Current: Fanout of 10 LSTTL Loads
- Wide Operating Voltage: $V_{CC}=2\sim 6\text{V}$
- Low Input Current: $1\mu\text{A max.}$
- Low Quiescent Supply Current: $I_{CC}(\text{static})=1\mu\text{A max.}$ ($T_a=25^\circ\text{C}$)

PIN ARRANGEMENT



(Top View)

DC CHARACTERISTICS

Item	Symbol	$V_{CC}(\text{V})$	Test Conditions	$T_a=25^\circ\text{C}$			$T_a=-40\sim+85^\circ\text{C}$		Unit
				min	typ	max	min	max	
Input Voltage	V_{IH}	2.0		1.5	—	—	1.5	—	V
		4.5		3.15	—	—	3.15	—	
		6.0		4.2	—	—	4.2	—	
	V_{IL}	2.0		—	—	0.5	—	0.5	V
		4.5		—	—	1.35	—	1.35	
		6.0		—	—	1.8	—	1.8	
Output Voltage	V_{OH}	2.0	$V_{i.s}=V_{IH} \text{ or } V_{IL}$	$I_{OH}=-20\mu\text{A}$	1.9	2.0	—	1.9	V
		4.5			4.4	4.5	—	4.4	
		6.0			5.9	6.0	—	5.9	
		4.5		$I_{OH}=-4\text{mA}$	4.18	—	—	4.13	
		6.0			5.68	—	—	5.63	
		6.0		$I_{OH}=-5.2\text{mA}$	—	—	—	—	
	V_{OL}	2.0	$V_{i.s}=V_{IH} \text{ or } V_{IL}$	$I_{OL}=20\mu\text{A}$	—	0.0	0.1	—	V
		4.5			—	0.0	0.1	—	
		6.0			—	0.0	0.1	—	
		4.5		$I_{OL}=4\text{mA}$	—	—	0.26	—	
		6.0			—	—	0.26	—	
		6.0		$I_{OL}=5.2\text{mA}$	—	—	—	—	
Input Current	$I_{i.s}$	6.0	$V_{i.s}=V_{CC} \text{ or } \text{GND}$	—	—	± 0.1	—	± 1.0	μA
Quiescent Supply Current	I_{CC}	6.0	$V_{i.s}=V_{CC} \text{ or } \text{GND}, I_{OL}=0\mu\text{A}$	—	—	1.0	—	10	μA

AC CHARACTERISTICS ($C_L=50\text{pF}$, Input $t_r=t_f=6\text{ns}$)

Item	Symbol	$V_{CC}(\text{V})$	Test Conditions	$T_a=25^\circ\text{C}$			$T_a=-40\sim+85^\circ\text{C}$		Unit
				min	typ	max	min	max	
Propagation Delay Time	t_{PLH}	2.0		—	—	120	—	150	ns
		4.5		—	13	24	—	30	
		6.0		—	—	20	—	26	
	t_{PHL}	2.0		—	—	120	—	150	ns
		4.5		—	12	24	—	30	
		6.0		—	—	20	—	26	
Output Rise Time	t_{TLH}	2.0		—	—	75	—	95	ns
		4.5		—	7	15	—	19	
		6.0		—	—	13	—	16	
Output Fall Time	t_{THL}	2.0		—	—	75	—	95	ns
		4.5		—	7	15	—	19	
		6.0		—	—	13	—	16	
Input Capacitance	$C_{i.s}$	—		—	5	10	—	10	pF