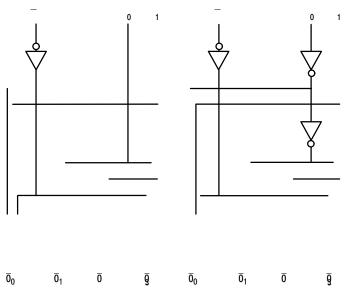


Figure 1. Logic Symbols



NOTE: This diagram is provided only for the understanding of logic operations and should not be used to estimate propagation delays.

Figure 2. Logic Diagram

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Rating	Unit
V _{CC}	Supply Voltage	-0.5 to +6.5	V
l _{IK}	DC Input Diode Current $V_{I} = -0.5 \text{ V}$ $V_{I} = V_{CC} + 0.5 \text{ V}$	-20 +20	mA
VI	-	-	="

DC ELECTRICAL CHARACTERISTICS FOR AC

				T _A = +	-25°C	$T_A = -40^{\circ}C$ to $+85^{\circ}C$	
Symbol	Parameter	V _{CC} (V)	Conditions	Typ Guaranteed Limits		uaranteed Limits	Unit
V _{IH}	Minimum HIGH Level	3.0	V _{OUT} = 0.1 V or V _{CC} – 0.1 V	1.5	2.1	2.1	V
	Input Voltage	4.5		2.25	3.15	3.15	i
		5.5		2.75	3.85	3.85	1
V_{IL}	Maximum LOW Level	3.0	V _{OUT} = 0.1 V or V _{CC} – 0.1 V	1.5	0.9	0.9	V
Input Voltage	Input Voltage	4.5	1	2.25	1.35	1.35	
		5.5		2.75	1.65	1.65	1
. 011	Minimum HIGH Level Output Voltage	3.0	I _{OUT} = -50 μA	2.99	2.9	2.9	V
		4.5	1	4.49	4.4	4.4	
		5.5		5.49	5.4	5.4	
		3.0	V_{IN} V_{IL} or V_{IH} , $I_{OH} = -12$ mA		2.56	2.46	
		4.5	V _{IN} V _{IL} or V _{IH} , I _{OH} = -24 mA		3.86	3.76	
		5.5	V_{IN} V_{IL} or V_{IH} , $I_{OH} = -24$ mA (Note 1)		4.86	4.76	1
. OL	Maximum LOW Level Output Voltage	3.0	I _{OUT} = 50 μA	0.002	0.1	0.1	V
		4.5		0.001	0.1	0.1	1
		5.5		0.001	0.1	0.1	1
		3.0	V _{IN} V _{IL} or V _{IH} . I _{OL} = 12 mA		0.36	0.44	
		4.5	, V _{IN} V _{IL}	•	•	•	

DC ELECTRICAL CHARACTERISTICS FOR ACT

				T _A = +25°C		$T_A = -40^{\circ}C$ to $+85^{\circ}C$	
Symbol Parameter		V _{CC} (V)	Conditions	Тур		Guaranteed Limits	
V _{IH} Minimum I Input Volta	Minimum HIGH Level	4.5	V _{OUT} 0.1 V or V _{CC} 0.1 V	1.5	2.0	2.0	V
	Input voltage	5.5		1.5	2.0	2.0	1
IL .	Maximum LOW Level	4.5	V _{OUT} 0.1 V or V _{CC} 0.1 V	1.5	0.8	0.8	V
	Input Voltage	5.5		1.5	0.8	0.8	1
OH	Minimum HIGH Level Output Voltage	4.5	I _{OUT} 50 μA	4.49	4.4	4.4	V
		5.5		5.49	5.4	5.4	1
		4.5	V _{IN} V _{IL} or V _{IH} , I _{OH} 24 mA		3.86	3.76	1
		5.5	V _{IN} V _{IL} or V _{IH} , I _{OH} 24 mA (Note 4)		4.86	4.76	1

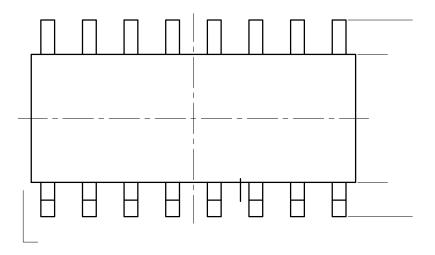
AC ELECTRICAL CHARACTERISTICS FOR AC

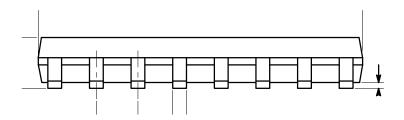
		V _{CC} (V)	$T_A = +25^{\circ}C, C_L = 50 \text{ pF}$		$T_A = -40^{\circ}\text{C to } +85^{\circ}\text{C}, C_L = 50 \text{ pF}$			
Symbol	Parameter	(Note 6)	Min	Тур	Max	Min	Max	Unit
t _{PLH}	Propagation Delay, A _n to O	·	-	-	-	-	-	-

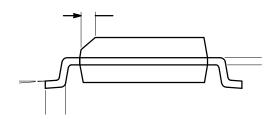


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