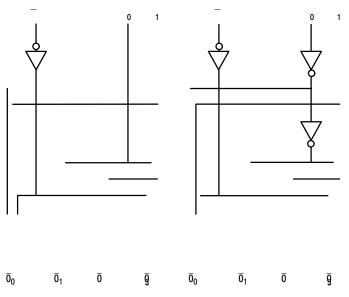


Figure 1. Logic Symbols



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		$T_A = -40^{\circ}C \text{ to } +85^{\circ}C$	
Symbol	Parameter	V _{CC} (V)	Conditions	Typ Guaranteed Limits		uaranteed Limits	Unit
11 1	Minimum HIGH Level Input Voltage	3.0	V _{OUT} = 0.1 V or V _{CC} – 0.1 V	1.5	2.1	2.1	V
		4.5]	2.25	3.15	3.15	
		5.5		2.75	3.85	3.85	1
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	4.5		2.25	1.35	1.35	
		5.5		2.75	1.65	1.65	
Vон	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	
V _{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}	•	•	•	

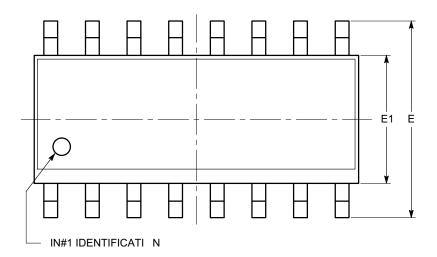
DC ELECTRICAL CHARACTERISTICS FOR ACT

				T _A = +	-25°C	$T_A = -40^{\circ}C$ to $+85^{\circ}C$	+85°C
Symbol	Parameter	V _{CC} (V)	Conditions	Typ Guarantee		uaranteed Limits	Unit
11.1	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
V _{IL} Maximum LOW Lev Input Voltage	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
V _{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

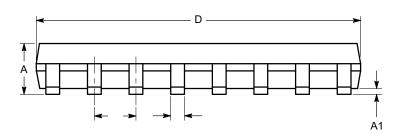
AC ELECTRICAL CHARACTERISTICS FOR AC

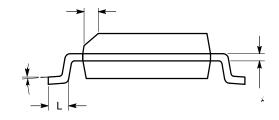
		V _{CC} (V)	$T_A = +25^{\circ}C, C_L = 50 \text{ pF}$		$T_A = -40^{\circ}C \text{ to } +8$			
Symbol	Parameter	(Note 6)	Min	Тур	Max	Min	Max	Unit
t _{PLH}	Propagation Delay, A _n to O	·	-	-	-	-	-	-

DATE 19 DEC 2008



TOP VIEW





END VIEW SIDE VIEW

Notes:

- (1) A ... n n .. na , ... n m... m , . An ... n , ... (2) C m JEDEC MS-012.

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