

DS006550

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Absolute Maximum Ratings(Note 1)

Supply Voltage	7V
Input Voltage	5.5V
Operating Free Air Temperature Range	$0^{\circ}C$ to $+70^{\circ}C$
Storage Temperature Range	-65°C to +150°C

Note 1: The "Absolute Maximum Ratings" are those values beyond which the safety of the device cannot be guaranteed. The device should not be operated at these limits. The parametric values defined in the Electrical Characteristics tables are not guaranteed at the absolute maximum ratings. The "Recommended Operating Conditions" table will define the conditions for actual device operation.

Recommended Operating Conditions

Symbol	Parameter	Min	Nom	Max	Units
V _{CC}	Supply Voltage	4.75	5	5.25	V
VIH	HIGH Level Input Voltage	2			V
VIL	LOW Level Input Voltage			0.8	V
I _{OH}	HIGH Level Output Current			-0.8	mA
I _{OL}	LOW Level Output Current			16	mA
T _A	Free Air Operating Temperature	0		70	°C

Electrical Characteristics

over recommended operating free air temperature range (unless otherwise noted)

Symbol	Parameter	Conditions	Min	Typ (Note 2)	Max	Units
VI	Input Clamp Voltage	$V_{CC} = Min, I_I = -12 \text{ mA}$			-1.5	V
V _{OH}	HIGH Level Output Voltage	$V_{CC} = Min, I_{OH} = Max$ $V_{IL} = Max, V_{IH} = Min$	2.4	3.4		V
V _{OL}	LOW Level Output Voltage	$V_{CC} = Min, I_{OL} = Max$ $V_{IH} = Min, V_{IL} = Max$			0.4	V
l _l	Input Current @ Max Input Voltage	$V_{CC} = Max, V_I = 5.5V$			1	mA
I _{IH}	HIGH Level Input Current	$V_{CC} = Max, V_I = 2.4V$			40	μA
Ι _{ΙL}	LOW Level Input Current	$V_{CC} = Max, V_I = 0.4V$			-1.6	mA
los	Short Circuit Output Current	V _{CC} = Max (Note 3)	-18		-55	mA
I _{CC}	Supply Current	V _{CC} = Max (Note 4)		30	48	mA
Note 2: All	typicals are at Voc - 5V Tr - 25°C	ł				

Note 2: All typicals are at V_{CC} = 5V, T_A = 25^{\circ}C.

Note 3: Not more than one output should be shorted at a time.

Note 4: I_{CC} is measured with 4.5V applied to all inputs and all outputs OPEN.

Switching Characteristics

at $V_{CC}=5V$ and $T_A=25^\circ C$

Symbol	Parameter	From (Input)	$R_L = 400\Omega$	$\textbf{R}_{L}=\textbf{400}\Omega,\textbf{C}_{L}=\textbf{15}\;\textbf{pF}$	
		To (Output)	Min	Max	Units
t _{PLH}	Propagation Delay Time	Data ta V	Data to Y 14	14	ns
	LOW-to-HIGH Level Output		14	115	
t _{PHL}	Propagation Delay Time Data to Y		14	ns	
	HIGH-to-LOW Level Output	Data to f		14	ns
t _{PLH}	Propagation Delay Time	Strobe to Y		20	ns
	LOW-to-HIGH Level Output				
t _{PHL}	Propagation Delay Time	Strobe to Y		21	ns
	HIGH-to-LOW Level Output			21	
t _{PLH}	Propagation Delay Time	Select to Y		23	ns
	LOW-to-HIGH Level Output				
t _{PHL}	Propagation Delay Time	Select to Y		27	ns
	HIGH-to-LOW Level Output	Select to 1		21	

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