

## Absolute Maximum Ratings(Note 1)

Supply Voltage	7V
Input Voltage	7V
Output Voltage	7V
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 <sub>CC</sub>	Supply Voltage	4.75	5	5.25	V
VIH	HIGH Level Input Voltage	2			V
V <sub>IL</sub>	LOW Level Input Voltage			0.8	V
V <sub>ОН</sub>	HIGH Level Output Voltage			5.5	V
I <sub>OL</sub>	LOW Level Output Current			8	mA
T <sub>A</sub>	Free Air Operating Temperature	0	e.	70	°C

Symbol	Parameter	Conditions	Min	Typ (Note 2)	Max	Units
/1	Input Clamp Voltage	$V_{CC} = Min, I_I = -18 \text{ mA}$	· · ·	(NOLE 2)	-1.5	V
CEX	HIGH Level Output Current	$V_{CC} = Min, V_O = 5.5V$ $V_{IL} = Max$			100	μΑ
V <sub>OL</sub>	LOW Level Output Voltage	$V_{CC} = Min, 1_{OL} = Max$ $V_{IH} = Min$		0.35	0.5	V
		I <sub>OL</sub> = 4 mA, V <sub>CC</sub> = Min		0.25	0.4	
1	Input Current @ Max Input Voltage	$V_{CC} = Max, V_I = 7V$			0.1	mA
I <sub>IH</sub>	HIGH Level Input Current	$V_{CC} = Max, V_I = 2.7V$			20	μA
IIL	LOW Level Input Current	$V_{CC} = Max, V_I = 0.4V$			-0.36	mA
ссн	Supply Current with Outputs HIGH	V <sub>CC</sub> = Max		1.2	2.4	mA
ICCL	Supply Current with Outputs LOW	V <sub>CC</sub> = Max		3.6	6.6	mA

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

## **Switching Characteristics**

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

		$R_L = 2 k\Omega$				
Symbol	Parameter	C <sub>L</sub> = 15 pF		C <sub>L</sub> = 50 pF		Units
		Min	Max	Min	Max	
t <sub>PLH</sub>	Propagation Delay Time LOW-to-HIGH Level Output	6	20	20	45	ns
t <sub>PHL</sub>	Propagation Delay Time HIGH-to-LOW Level Output	3	15	4	20	ns





