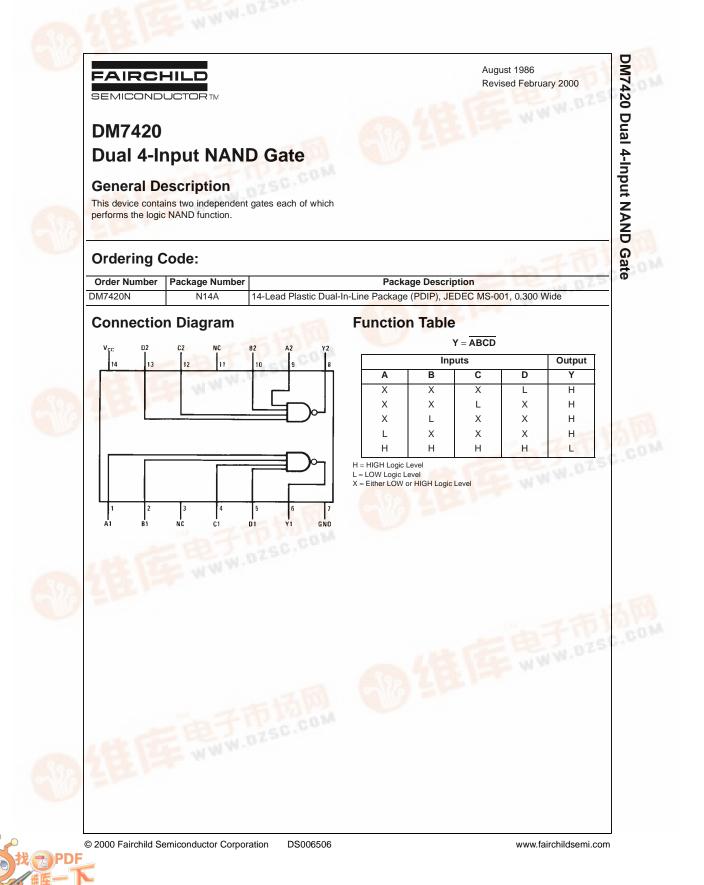
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## Absolute Maximum Ratings(Note 1)

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 <sub>CC</sub>	Supply Voltage	4.75	5	5.25	V
V <sub>IH</sub>	HIGH Level Input Voltage	2			V
V <sub>IL</sub>	LOW Level Input Voltage			0.8	V
l <sub>он</sub>	HIGH Level Output Current			-0.4	mA
OL	LOW Level Output Current			16	mA
T <sub>A</sub>	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	$V_{CC} = Min, I_I = -12 mA$			-1.5	V
V <sub>OH</sub>	HIGH Level	V <sub>CC</sub> = Min, I <sub>OH</sub> = Max	2.4	3.4		V
	Output Voltage	V <sub>IL</sub> = Max	2.4			v
V <sub>OL</sub>	LOW Level	V <sub>CC</sub> = Min, I <sub>OL</sub> = Max		0.2	0.4	V
	Output Voltage	$V_{IH} = Min$				
I <sub>I</sub>	Input Current @ Max	$V_{CC} = Max, V_I = 5.5V$			1	mA
	Input Voltage					
I <sub>IH</sub>	HIGH Level Input Current	$V_{CC} = Max, V_I = 2.4V$			40	μA
I <sub>IL</sub>	LOW Level Input Current	$V_{CC} = Max, V_I = 0.4V$			-1.6	mA
los	Short Circuit Output Current	V <sub>CC</sub> = Max (Note 3)	-18		-55	mA
I <sub>CCH</sub>	Supply Current with Outputs HIGH	V <sub>CC</sub> = Max		2	4	mA
I <sub>CCL</sub>	Supply Current with Outputs LOW	V <sub>CC</sub> = Max		6	11	mA

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.

## **Switching Characteristics**

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

Symbol	Parameter	Conditions	Min	Max	Units
	Propagation Delay Time LOW-to-HIGH Level Output	$C_L = 15 \text{ pF}$ $R_L = 400\Omega$		22	ns
	Propagation Delay Time HIGH-to-LOW Level Output			15	ns

