

# **Excellent Integrated System Limited**

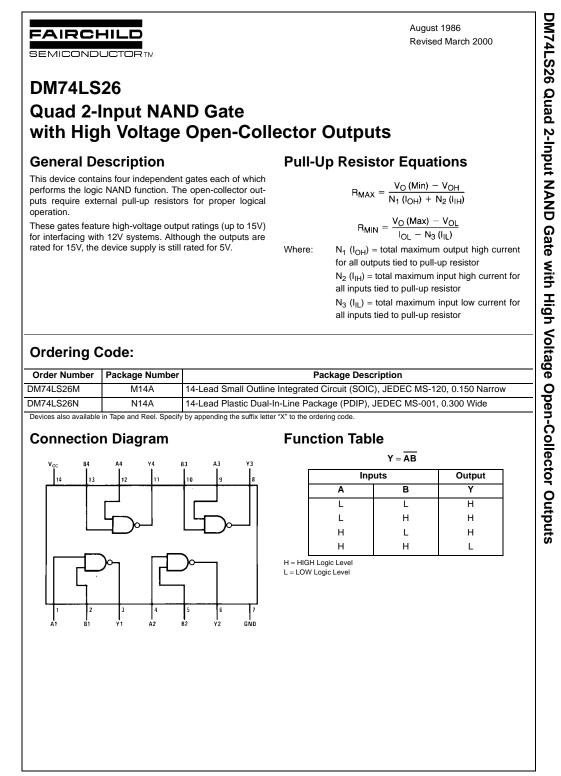
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Fairchild Semiconductor DM74LS26N

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>







## Absolute Maximum Ratings(Note 1)

Supply Voltage	7V
Input Voltage	7V
Output Voltage	15V
Operating Free Air Temperature Range	$0^{\circ}C$ to $+70^{\circ}C$
Storage Temperature Range	$-65^{\circ}C$ to $+150^{\circ}C$

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
/ <sub>IH</sub>	HIGH Level Input Voltage	2			V
V <sub>IL</sub>	LOW Level Input Voltage			0.8	V
/ <sub>ОН</sub>	HIGH Level Output Voltage			15	V
OL	LOW Level Output Current			8	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	$V_{CC} = Min, I_{I} = -18 \text{ mA}$		Min	Typ (Note 2)	<b>Max</b> -1.5	Units V
VI	Input Clamp Voltage						
I <sub>CEX</sub>	HIGH Level	V <sub>CC</sub> = Min	V <sub>O</sub> = 15V			1000	
	Output Current	V <sub>IL</sub> = Max	V <sub>O</sub> = 12V			50	μΑ
V <sub>OL</sub>	LOW Level	V <sub>CC</sub> = Min, I <sub>OL</sub> = Max	•		0.35	0.5	
	Output Voltage	V <sub>IH</sub> = Min			0.55	0.5	V
		$I_{OL} = 4 \text{ mA}, V_{CC} = \text{Min}$			0.25	0.4	
l <sub>l</sub>	Input Current @ Max	$V_{CC} = Max, V_I = 7V$				0.1 mA	~^
	Input Voltage	$V_{I} = 5.5V$					ША
IIH	HIGH Level Input Current	$V_{CC} = Max, V_I = 2.7V$				20	μA
Ι <sub>L</sub>	LOW Level Input Current	$V_{CC} = Max, V_I = 0.4V$				-0.36	mA
ICCH	Supply Current with Outputs HIGH	V <sub>CC</sub> = Max			0.8	1.6	mA
I <sub>CCL</sub>	Supply Current with Outputs LOW	V <sub>CC</sub> = Max			2.4	4.4	mA

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

#### **Switching Characteristics**

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

	Parameter	$R_L = 2 k\Omega$				
Symbol		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		20		45	ns
t <sub>PHL</sub>	Propagation Delay Time HIGH-to-LOW Level Output		15		20	ns



