

DM7426

Absolute Maximum Ratings(Note 1)

Supply Voltage	7V
Input Voltage	5.5V
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 _{CC}	Supply Voltage	4.75	5	5.25	V
V _{IH}	HIGH Level Input Voltage	2			V
V _{IL}	LOW Level Input Voltage			0.8	V
V _{OH}	HIGH Level Output Voltage			15	V
I _{OL}	LOW Level Output Current			16	mA
T _A	Free Air Operating Temperature	0		70	°C

Electrical Characteristics

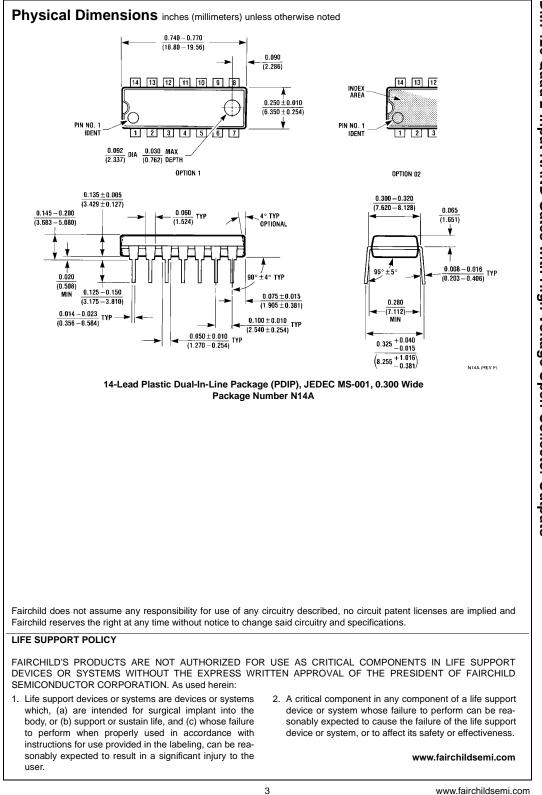
over recommended operating free air temperature range (unless otherwise noted)

Symbol	Parameter	Conditions		Min	Typ (Note 2)	Max	Units	
VI	Input Clamp Voltage	$V_{CC} = Min, I_I = -12 \text{ mA}$				-1.5	V	
ICEX	HIGH Level	V _{CC} = Min	$V_0 = 15V$			1000	μA	
	Output Current	V _{IL} = Max	$V_0 = 12V$			50	- μΑ	
V _{OL}	LOW Level	V _{CC} = Min, I _{OL} = Max	•			0.4	V	
	Output Voltage	V _{IH} = Min				0.4		
l _l	Input Current @ Max	V _{CC} = Max,				1	1 mA	
	Input Voltage	$V_I = 5.5V$				1		
IIH	High Level Input Current	$V_{CC} = Max, V_I = 2.4V$				40	μA	
I _{IL}	Low Level Input Current	$V_{CC} = Max, V_1 = 0.4V$				-1.6	mA	
ICCH	Supply Current with Outputs HIGH	V _{CC} = Max			4	8	mA	
I _{CCL}	Supply Current with Outputs LOW	V _{CC} = Max			12	22	mA	
Note 2: All	vpicals are at $V_{CC} = 5V$. $T_{A} = 25^{\circ}C$.							

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

Switching Characteristics

at $V_{CC} = 5V$ and $T_A = 25^{\circ}C$						
Symbol	Parameter	Conditions	Min	Max	Units	
t _{PLH}	Propagation Delay Time LOW-to-HIGH Level Output	$C_L = 15 \text{ pF}$ $R_L = 1 \text{ k}\Omega (t_{PLH})$		24	ns	
t _{PHL}	Propagation Delay Time HIGH-to-LOW Level Output			17	ns	



DM7426 Quad 2-Input NAND Gates with High Voltage Open-Collector Outputs

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