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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	$-65^{\circ}C$ 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			5.5	V
I _{OL}	LOW Level Output Current			8	mA
T _A	Free Air Operating Temperature	0		70	°C

Electrical Characteristics

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

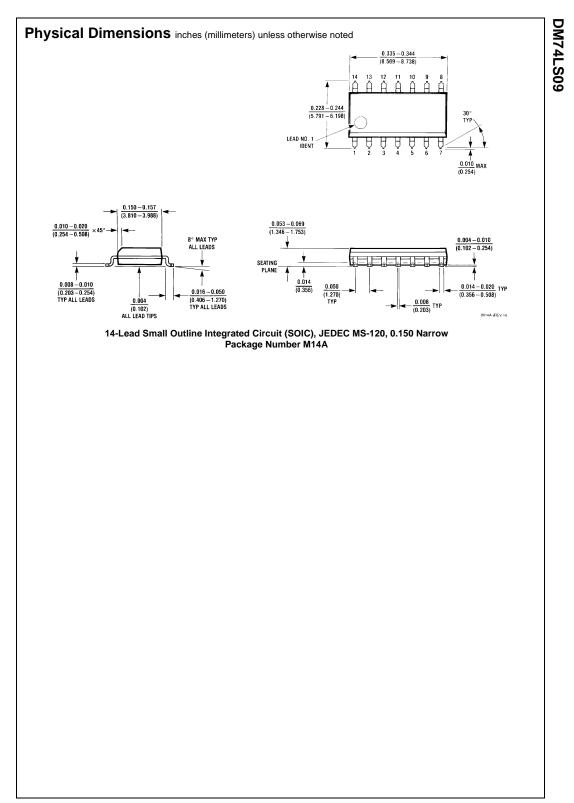
Parameter	Conditions	Min	Typ (Note 2)	Max	Units
Input Clamp Voltage	$V_{CC} = Min, I_I = -18 \text{ mA}$			-1.5	V
HIGH Level Output Current	$V_{CC} = Min, V_O = 5.5V$ $V_{HH} = Min$			100	μA
LOW Level Output Voltage	$V_{CC} = Min, I_{OL} = Max$ $V_{IL} = Max$		0.35	0.5	v
	$I_{OL} = 4 \text{ mA}, V_{CC} = \text{Min}$		0.25	0.4	
Input Current @ Max Input Voltage	$V_{CC} = Max, V_I = 7V$			0.1	mA
HIGH Level Input Current	$V_{CC} = Max, V_{I} = 2.7V$			20	μΑ
LOW Level Input Current	$V_{CC} = Max, V_I = 0.4V$			-0.36	mA
Supply Current with Outputs HIGH	V _{CC} = Max		2.4	4.8	mA
Supply Current with Outputs LOW	V _{CC} = Max		4.4	8.8	mA
	Input Clamp Voltage HIGH Level Output Current LOW Level Output Voltage Input Current @ Max Input Voltage HIGH Level Input Current LOW Level Input Current Supply Current with Outputs HIGH	$eq:linear_line$	$\label{eq:constraint} \qquad \qquad$	$\begin{tabular}{ c c c c c } \hline Parameter & Conditions & Min & (Note 2) \\ \hline Input Clamp Voltage & V_{CC} = Min, I_1 = -18 mA & \\ \hline HIGH Level & V_{CC} = Min, V_0 = 5.5V & \\ Output Current & V_{IH} = Min & \\ \hline LOW Level & V_{CC} = Min, I_{OL} = Max & \\ Output Voltage & V_{IL} = Max & \\ \hline I_{OL} = 4 mA, V_{CC} = Min & 0.25 \\ \hline Input Current @ Max Input Voltage & V_{CC} = Max, V_1 = 7V & \\ \hline HIGH Level Input Current & V_{CC} = Max, V_1 = 2.7V & \\ \hline LOW Level Input Current & V_{CC} = Max, V_1 = 0.4V & \\ \hline Supply Current with Outputs HIGH & V_{CC} = Max & 2.4 \\ \hline \end{tabular}$	$\begin{tabular}{ c c c c c } \hline Parameter & Conditions & Min & (Note 2) & Max \\ \hline Input Clamp Voltage & V_{CC} = Min, I_I = -18 mA & -1.5 \\ \hline HIGH Level & V_{CC} = Min, V_0 = 5.5 V & 100 & 100 \\ \hline Output Current & V_{IH} = Min & V_{CC} = Min, I_{0L} = Max & 0.35 & 0.5 \\ \hline Output Voltage & V_{IL} = Max & 0.35 & 0.5 \\ \hline Output Voltage & V_{IL} = Max & 0.25 & 0.4 \\ \hline Input Current @ Max Input Voltage & V_{CC} = Min, I_{0L} = 7V & 0.1 \\ \hline HIGH Level Input Current & V_{CC} = Max, V_I = 2.7V & 0.1 \\ \hline HIGH Level Input Current & V_{CC} = Max, V_I = 0.4V & -0.36 \\ \hline Supply Current with Outputs HIGH & V_{CC} = Max & 2.4 & 4.8 \\ \hline \end{tabular}$

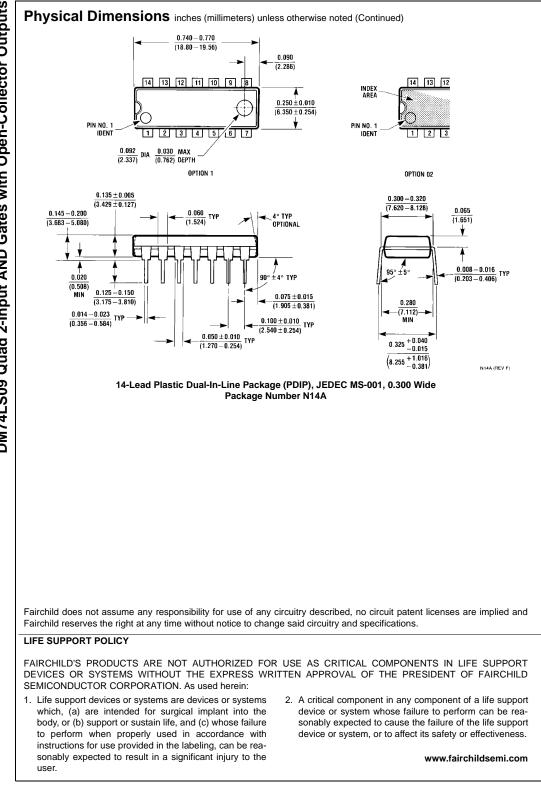
Note 2: All typicals are at V_{CC} = 5V, T_A = 25^{\circ}C.

Switching Characteristics

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

	Parameter	$R_L = 2 k\Omega$				
Symbol		C _L = 15 pF		C _L = 50 pF		Units
		Min	Max	Min	Max	
1 211	Propagation Delay Time LOW-to-HIGH Level Output	5	20	8	45	ns
	Propagation Delay Time HIGH-to-LOW Level Output	4	15	6	27	ns





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