

Absolute Maximum Ratings (Note)

Supply Voltage	7V
Input Voltage	5.5V
Operating Free Air Temperature Range	
DM74	0°C to +70°C
Storage Temperature Range	-65°C to +150°C

Note: 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" table 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	DM7427			Units
eyniser		Min	Nom	Max	onita
V _{CC}	Supply Voltage	4.75	5	5.25	V
VIH	High Level Input Voltage	2			V
VIL	Low Level Input Voltage			0.8	V
Іон	High Level Output Current			-0.8	mA
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)

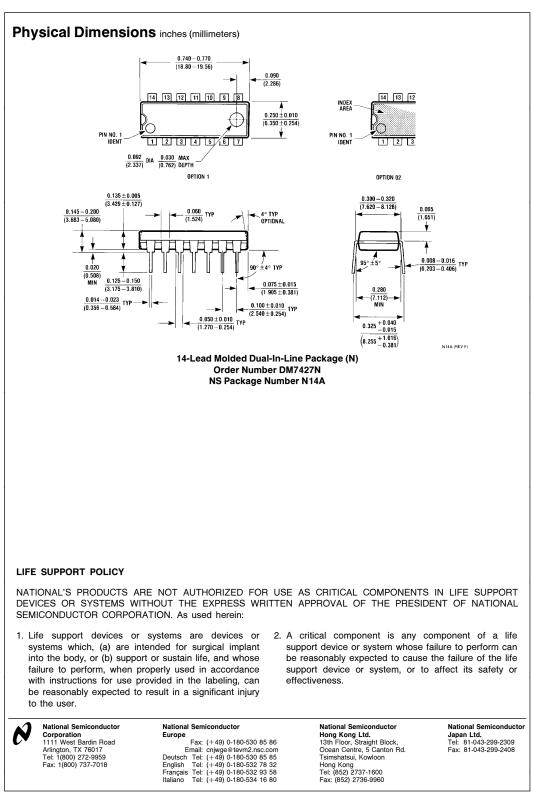
Symbol	Parameter	Conditions	Min	Typ (Note 1)	Max	Units
VI	Input Clamp Voltage	$V_{CC} = Min$, $I_I = -12 \text{ mA}$			- 1.5	V
V _{OH}	High Level Output Voltage	$V_{CC} = Min, I_{OH} = Max$ $V_{IL} = Max$	2.4	3.4		v
V _{OL}	Low Level Output Voltage	$\label{eq:V_CC} \begin{array}{l} V_{CC} = \text{Min}, \text{I}_{OL} = \text{Max} \\ V_{IH} = \text{Min} \end{array}$		0.2	0.4	v
l _l	Input Current @ Max Input Voltage	$V_{CC} = Max, V_I = 5.5V$			1	mA
I _{IH}	High Level Input Current	$V_{CC} = Max, V_I = 2.4V$			40	μΑ
IIL	Low Level Input Current	$V_{CC} = Max, V_I = 0.4V$			-1.6	mA
I _{OS}	Short Circuit Output Current	V _{CC} = Max (Note 2)	-18		-57	mA
ICCH	Supply Current with Outputs High	V _{CC} = Max		10	16	mA
ICCL	Supply Current with Outputs Low	V _{CC} = Max		16	26	mA

Switching Characteristics at $V_{CC} = 5V$ and $T_A = 25^{\circ}C$ (See Section 1 for Test Waveforms and Output Load)

Symbol	Parameter	Conditions	Min	Мах	Units
t _{PLH}	Propagation Delay Time Low to High Level Output	$C_L = 15 pF$ $R_L = 400 \Omega$		11	ns
t _{PHL}	Propagation Delay Time High to Low Level Output			15	ns

Note 1: All typicals are at $V_{CC} = 5V$, $T_A = 25^{\circ}C$.

Note 2: Not more than one output should be shorted at a time.



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