



Absolute Maximum Ratings(Note 1)

Supply Voltage	7V
Input Voltage	7V
Operating Free Air Temperature Range	0°C to +70°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 _{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
I _{ОН}	HIGH Level Output Current			-0.4	mA
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)

Symbol	Parameter	Conditions	Min	Typ (Note 2)	Max	Units
VI	Input Clamp Voltage	$V_{CC} = Min, I_I = -18 mA$			-1.5	V
V _{OH}	HIGH Level	V _{CC} = Min, I _{OH} = Max,	2.7	3.4		V
	Output Voltage	V _{IL} = Max	2.1	5.4		v
V _{OL}	LOW Level	V _{CC} = Min, I _{OL} = Max,		0.35	0.5	
	Output Voltage	V _{IH} = Min		0.00	0.0	V
		$I_{OL} = 4 \text{ mA}, V_{CC} = \text{Min}$		0.25	0.4	
h i	Input Current @ Max	$V_{CC} = Max, V_I = 7V$			0.1	mA
	Input Voltage					
IIH	HIGH Level Input Current	$V_{CC} = Max, V_I = 2.7V$			20	μΑ
Ι _{ΙL}	LOW Level Input Current	$V_{CC} = Max, V_I = 0.4V$			-0.36	mA
los	Short Circuit Output Current	V _{CC} = Max (Note 3)	-20		-100	mA
ICCH	Supply Current with Outputs HIGH	V _{CC} = Max		1.2	2.4	mA
ICCL	Supply Current with Outputs LOW	V _{CC} = Max		3.6	6.6	mA

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

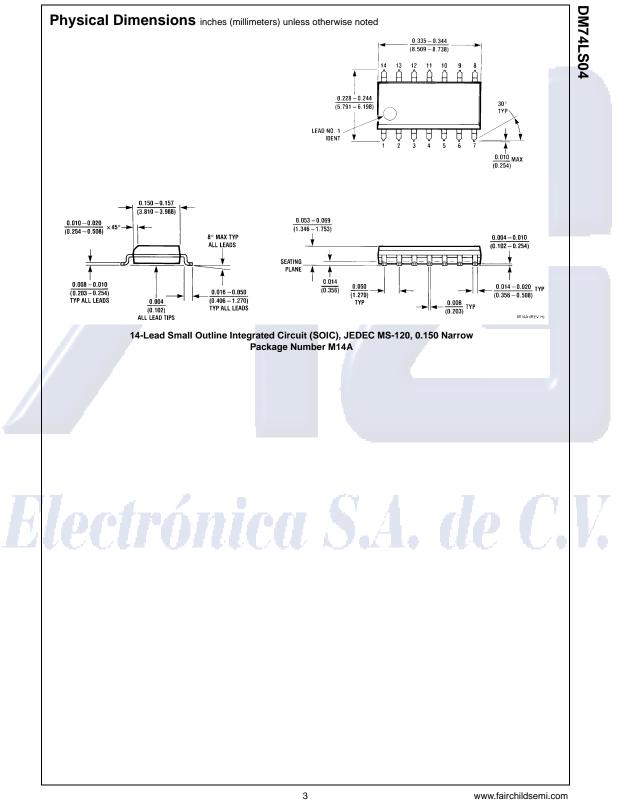
Note 3: Not more than one output should be shorted at a time, and the duration should not exceed one second.

Switching Characteristics

at V_{CC} = 5V and T_A = 25°C

		$R_L = 2 k\Omega$				
Symbol	Parameter	C _L = 15 pF		C _L = 50 pF		Units
		Min	Max	Min	Мах	
t _{PLH}	Propagation Delay Time LOW-to-HIGH Level Output	3	10	4	15	ns
t _{PHL}	Propagation Delay Time HIGH-to-LOW Level Output	3	10	4	15	ns

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