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DM7406

Absolute Maximum Ratings(Note 1)

Supply Voltage	7V
Input Voltage	5.5V
Output Voltage	30V
Operating Free Air Temperature Range	$0^{\circ}C$ to $+70^{\circ}C$
Storage Temperature Range -65	5°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
V _{OH}	HIGH Level Output Voltage			30	V
I _{OL}	LOW Level Output Current			40	mA
T _A	Free Air Operating Temperature	0		70	°C

Electrical Characteristics

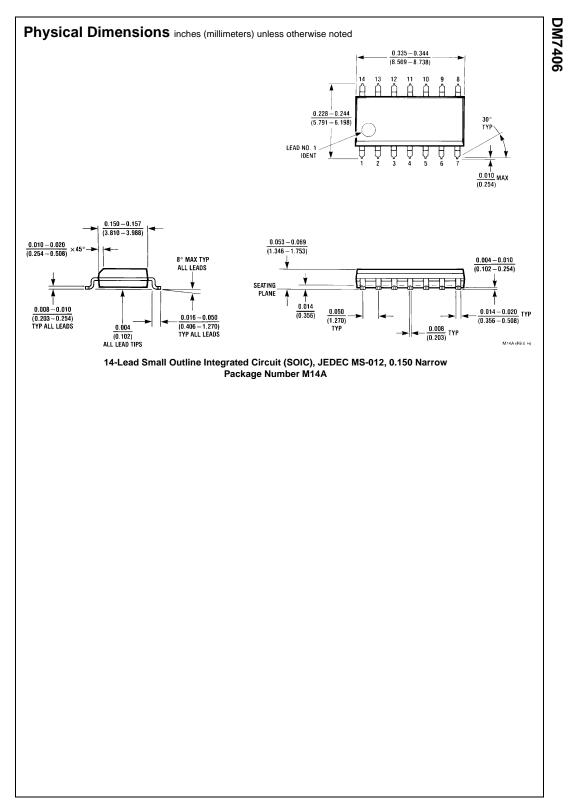
over recommended operating free air temperature range (unless otherwise noted)

Symbol	Parameter	Conditions	Min	Typ (Note 2)	Max	Units
VI	Input Clamp Voltage	$V_{CC} = Min, I_I = -12 mA$			-1.5	V
ICEX	HIGH Level	$V_{CC} = Min, V_O = 30V$			250	μΑ
	Output Current	V _{IL} = Max			230	
V _{OL}	LOW Level	$V_{CC} = Min, I_{OL} = Max$			0.7	V
	Output Voltage	$V_{IH} = Min$			0.7	
		$I_{OL} = 16 \text{ mA}, V_{CC} = \text{Min}$			0.4	
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
I _{IL}	LOW Level Input Current	$V_{CC} = Max, V_I = 0.4V$			-1.6	mA
ICCH	Supply Current with Outputs HIGH	V _{CC} = Max		30	48	mA
I _{CCL}	Supply Current with Outputs LOW	V _{CC} = Max		27	51	mA
Note 2: All	typicals 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 $T_A = 25^{\circ}C$					Unite
Symbol	Parameter	Conditions	Min	Max	Units
t _{PLH}	Propagation Delay Time	C _L = 15 pF		15	ns
	LOW-to-HIGH Level Output	$R_L = 110\Omega$			
t _{PHL}	Propagation Delay Time			23	20
	HIGH-to-LOW Level Output			23	ns



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