

Absolute Maximum Ratings(Note 1)

Supply Voltage	7V
Input Voltage	7V
Operating Free Air Temperature Range	$0^{\circ}C$ to $+70^{\circ}C$
Storage Temperature Range	$-65^{\circ}C$ to $+150^{\circ}C$
Typical θ _{JA}	
N Package	76.0°C/W
M Package	106.5°C/W

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

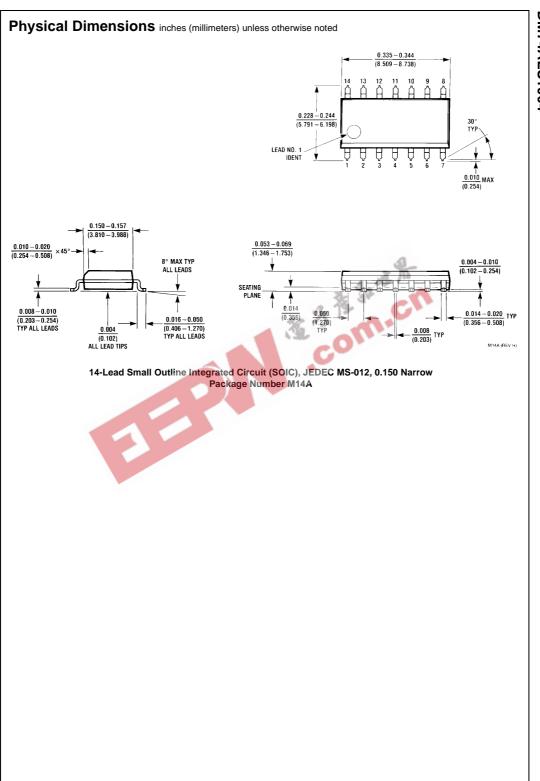
Symbol	Parameter	Min	Nom	Max	Units
V _{CC}	Supply Voltage	4.5	5	5.5	V
VIH	HIGH Level Input Voltage	2			V
V _{IL}	LOW Level Input Voltage			0.8	V
I _{ОН}	HIGH Level Output Current		.	-15	mA
I _{OL}	LOW Level Output Current		A 16 M	24	mA
T _A	Free Air Operating Temperature	0 📲		70	°C
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Electrical Characteristics

Symbol	Parameter	Condition	ns	Min	Тур	Max	Units
V _{IK}	Input Clamp Voltage	$V_{CC} = 4.5V, I_I = -18 \text{ mA}$	*			-1.5	V
V _{он}	HIGH Level	$I_{OH} = -0.4 \text{ mA}, V_{CC} = 4.5 \text{V to}$	5.5V	V _{CC} – 2			
	Output Voltage	I _{OH} = Max, V _{CC} = 4.5V		2			V
		$I_{OH} = -3 \text{ mA}, V_{CC} = 4.5 \text{V}$		2.4			1
V _{OL}	LOW Level	$V_{CC} = 4.5V$	I _{OL} = 12 mA		0.25	0.4	V
	Output Voltage		I _{OL} = 24 mA		0.35	0.5	V
I	Input Current at Maximum Input Voltage	$V_{CC} = 5.5V, V_{IH} = 7V$				0.1	mA
н	HIGH Level Input Current	$V_{CC} = 5.5V, V_{IH} = 2.7V$				20	μΑ
IL	LOW Level Input Current	$V_{CC} = 5.5V, V_{IL} = 0.4V$				-0.1	mA
0	Output Drive Current	$V_{CC} = 5.5V, V_{O} = 2.25V$		-30		-112	mA
сс	Supply Current	$V_{CC} = 5.5V$	Outputs HIGH		0.84	3	mA
			Outputs LOW		7	12	mA

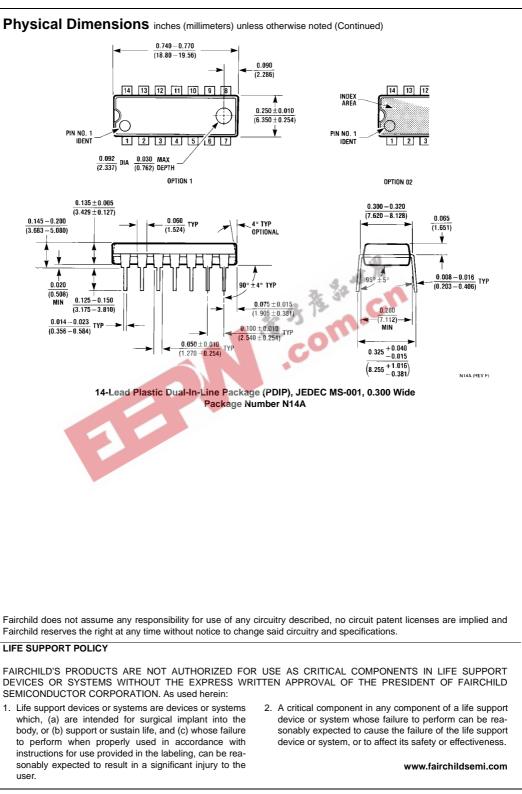
Switching Characteristics

over recommended operating free air temperature range Symbol Conditions Min Max Units Parameter $V_{CC} = 4.5V$ to 5.5VPropagation Delay Time t_{PLH} 7 1 ns LOW-to-HIGH Level Output $R_L = 500\Omega$, t_{PHL} Propagation Delay Time $C_L = 50 \ pF$ 1 6 ns HIGH-to-LOW Level Output



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