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## Absolute Maximum Ratings(Note 1)

Voltage at Any Pin Operating Temperature Range Storage Temperature Range Power Dissipation (P<sub>D</sub>) Dual-In-Line Small Outline Operating V<sub>CC</sub> Range

–0.3V to V <sub>CC</sub> + 0.3V
-40°C to +85°C
-65°C to +150°C
700 mW
500 mW
3.0V to 15V

## Absolute Maximum V<sub>CC</sub> Lead Temperature (Soldering, 10 seconds)

18V 260°C

Note 1: "Absolute Maximum Ratings" are those values beyond which the safety of the device cannot be guaranteed. Except for "Operating Temperature Range" they are not meant to imply that the devices should be operated at these limits. The Electrical Characteristics table provides conditions for actual device operation.

-8.0

1.75

8.0

15

3.6

16

mΑ

mΑ

mΑ

## **DC Electrical Characteristics**

Output Source Current

Output Sink Current

(P-Channel)

(N-Channel) Output Sink Current

(N-Channel)

ISOURCE

I<sub>SINK</sub>

ISINK

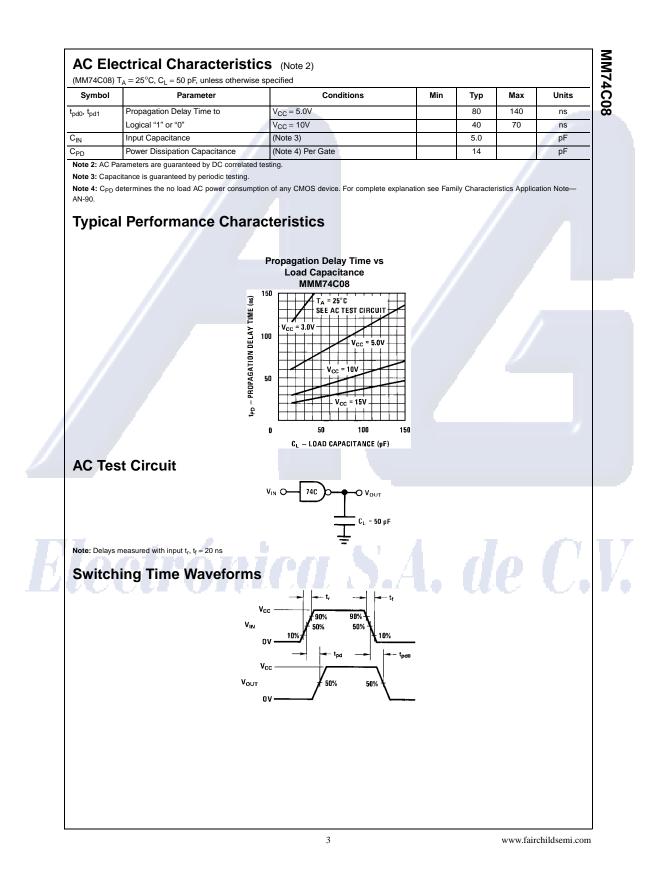
Symbol	Parameter	Conditions	Min	Тур	Max	Units
смоз то с	MOS			I	1	
V <sub>IN(1)</sub>	IN(1) Logical "1" Input Voltage	$V_{CC} = 5.0V$	3.5			V
		$V_{CC} = 10V$	8.0			V
V <sub>IN(0)</sub>	Logical "0" Input Voltage	$V_{CC} = 5.0V$			1.5	V
		$V_{CC} = 10V$	//		2.0	V
V <sub>OUT(1)</sub>	Logical "1" Output Voltage	$V_{CC} = 5.0V, I_{O} = -10 \ \mu A$	4.5			V
		$V_{CC} = 10V, I_{O} = -10 \ \mu A$	9.0		/	V
V <sub>OUT(0)</sub>	0) Logical "0" Output Voltage	$V_{CC} = 5.0V, I_{O} = 10 \mu A$			0.5	V
		$V_{CC} = 10V, I_{O} = 10 \ \mu A$			1.0	V
I <sub>IN(1)</sub>	Logical "1" Input Current	V <sub>CC</sub> = 15V, V <sub>IN</sub> = 15V		0.005	1.0	μA
I <sub>IN(0)</sub>	Logical "0" Input Current	$V_{CC} = 15V, V_{IN} = 0V$	-1.0	-0.005		μA
I <sub>CC</sub>	Supply Current	$V_{CC} = 15V$		0.01	15	μA
CMOS/LPT	L INTERFACE					
V <sub>IN(1)</sub>	Logical "1" Input Voltage	74C, V <sub>CC</sub> = 4.75V	V <sub>CC</sub> – 1.5			V
V <sub>IN(0)</sub>	Logical "0" Input Voltage	74C, V <sub>CC</sub> = 4.75V			0.8	V
V <sub>OUT(1)</sub>	Logical "1" Output Voltage	74C, $V_{CC} = 4.75V$ , $I_{O} = -360 \mu\text{A}$	2.4			V
V <sub>OUT(0)</sub>	Logical "0" Output Voltage	74C, $V_{CC} = 4.75V$ , $I_{O} = 360 \mu$ A			0.4	V
	RIVE (see Family Characteristics D	ata Sheet) T <sub>A</sub> = 25°C (short circuit current	)			
ISOURCE	Output Source Current	$V_{CC} = 5.0V, V_{OUT} = 0V$	-1.75	-3.3		mA
	(P-Channel)					

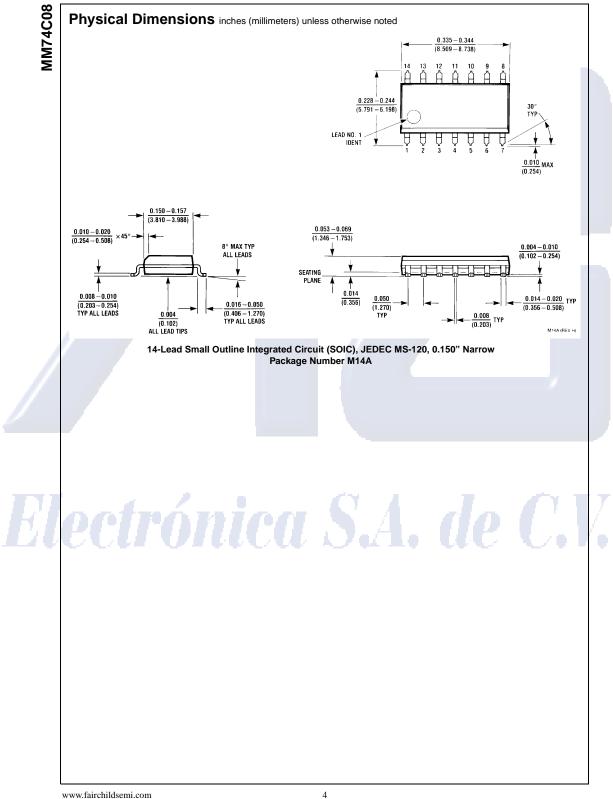
 $V_{CC} = 10V, V_{OUT} = 0V$ 

 $V_{CC} = 5.0V, V_{OUT} = V_{CC}$ 

 $V_{CC} = 10V, V_{OUT} = V_{CC}$ 

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