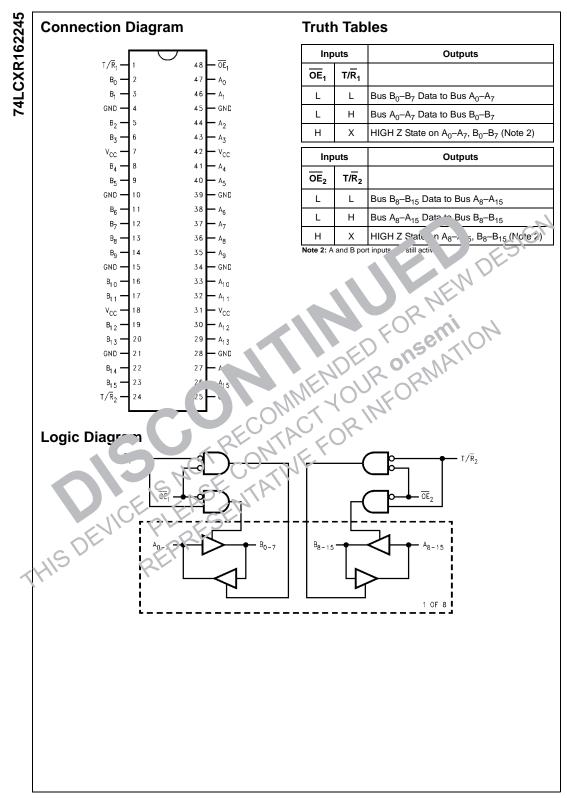


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Symbol	Parameter	Value	Conditions	Units	
V _{CC}	Supply Voltage	-0.5 to +7.0		V	
VI	DC Input Voltage	-0.5 to +7.0		V	
Vo	DC Output Voltage	-0.5 to +7.0	Output in 3-STATE	V	
		–0.5 to V _{CC} + 0.5	Output in HIGH or LOW State (Note 4)		
к	DC Input Diode Current	-50	V _I < GND	mA	
ок	DC Output Diode Current	-50	V _O < GND		
		+50	$V_{O} > V_{CC}$	mA	
I _O	DC Output Source/Sink Current	±50		mA	
I _{CC}	DC Supply Current per Supply Pin	±100		mA	
GND	DC Ground Current per Ground Pin	±100		mA	
T _{STG}	Storage Temperature	-65 to +150		°C	

Recommended Operating Conditions (Note 5)

<u> </u>				
Symbol	Parameter	in Tin	Max	Units
V _{CC}	Supply Voltage Ope	ting 2.0	3.6	V
	Dai Reten	. n	3.6	v
VI	Input Voltage	0	5.5	V
Vo	Output Voltage	ate 9	V _{CC}	V
	3-ST/	TE 0	5.5	A
I _{OH} /I _{OL}	Output Current V _{CC} = 3 0 / - 3	.6V	12	
	V _{CC} = 2 7V - 3	.0\/	±8	mA
	V _{CC} = 2.3V - 2	ZV	±4	
T _A	Free-Air Operating Temperatu	-40	85	°C
Δt/ΔV	Input Edge Rate, VIN = 0.8V-	0	10	ns/V

Note 3: The Absolute Maximum Rating at these limits. The parametric values mended Operating Conditions" in will affine the conditions for a sual device operation. Note 4: I₀ Absolute Maximum Rating must erved

Note 4: Io Absolute Maxim I Rating muse and Ville Hold Millions of Estuar device operation. Note 5: Unused pins () uts ... () s) r - st be held filled of LOW. They may not Float. DC E' = Ctr. `a. Characteristics

Symbol	Parameter	Conditions	V _{cc}	$T_A = -40^{\circ}C \text{ to } +85^{\circ}C$		Units
Symbol		Sconditions	(V)	Min	Max	- 01113
IH	HIG 1 Lever Input Voltage		2.3 - 2.7	1.7		V
~			2.7 - 3.6	2.0		v
L	LOW Level Input Vola je		2.3 - 2.7		0.7	V
$\langle V \rangle$			2.7 - 3.6		0.8	
н	HIGH Level Output Voltage	I _{OH} = -100 μA	2.3 - 3.6	V _{CC} – 0.2		
		I _{OH} = -4 mA	2.3	1.8		- V
		I _{OH} = -4 mA	2.7	2.2		
		I _{OH} = -6 mA	3.0	2.4		
		I _{OH} = -8 mA	2.7	2.0		
		I _{OH} = -12 mA	3.0	2.0		
OL	LOW Level Output Voltage	I _{OL} = 100 μA	2.3 - 3.6		0.2	-
		I _{OL} = 4 mA	2.3		0.6	
		I _{OL} = 4 mA	2.7		0.4	v
		I _{OL} = 6 mA	3.0		0.55	V
		I _{OL} = 8 mA	2.7		0.6	
		I _{OL} = 12 mA	3.0		0.8	
I	Input Leakage Current	$0 \le V_I \le 5.5 V$	2.3 - 3.6		±5.0	μA
DZ	3-STATE I/O Leakage	$0 \le V_O \le 5.5 V$	2.3 - 3.6		±5.0	
		$V_I = V_{IH}$ or V_{IL}				μA

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DC Electrical Characteristics (Continued)

Symbol	Parameter	Conditions	V _{cc}	$T_A = -40^{\circ}C \text{ to } +85^{\circ}C$		Units
Gymbol		Conditiona	(V)	Min	Max	Units
OFF	Power-Off Leakage Current	$V_1 \text{ or } V_0 = 5.5 V$	0		10	μΑ
сс	Quiescent Supply Current	V _I = V _{CC} or GND	2.3 - 3.6		20	
		$3.6V \leq V_{I}, V_{O} \leq 5.5V$ (Note 6)	2.3 - 3.6		±20	μΑ
۵l ^{CC}	Increase in I _{CC} per Input	$V_{IH} = V_{CC} - 0.6V$	2.3 - 3.6		500	μA

Note 6: Outputs disabled or 3-STATE only.

AC Electrical Characteristics

		$T_A = -40^{\circ}C$ to $+85^{\circ}C$, $R_L = 500\Omega$						
Symbol	Parameter	V _{CC} = 3.	$\textbf{V}_{\textbf{CC}} = \textbf{3.3V} \pm \textbf{0.3V}$		$V_{CC} = 2.7V$		$V_{CC}=2.5V\pm0.2$	
		C _L = 50 pF		C _L = 50 pF		C. = 30 pF		Units
		Min	Max	Min	Max	Min	Max	CN.
t _{PHL}	Propagation Delay	1.5	5.3	1.5	6.0	1.5	6.4	
t _{PLH}	A _n to B _n or B _n to A _n	1.5	5.3	1.5	U		6,4	D ns
t _{PZL}	Output Enable Time	1.5	7.3	1.5	- ε	1.5	95	ns
t _{PZH}		1.5	7.3	1	8.0	1,5	9.5	115
t _{PLZ}	Output Disable Time	1.5	6.4	1.5	9	1.5	7.7	ns
t _{PHZ}		1.5	6.4	5	6.9	1.5	7.7	115
t _{OSHL}	Output to Output Skew (Note 7)		र न		$\langle 0 \rangle$		2	ns
toslh			1.		\mathbf{Y}	0	\cap	115

VSLH
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image: State output state out

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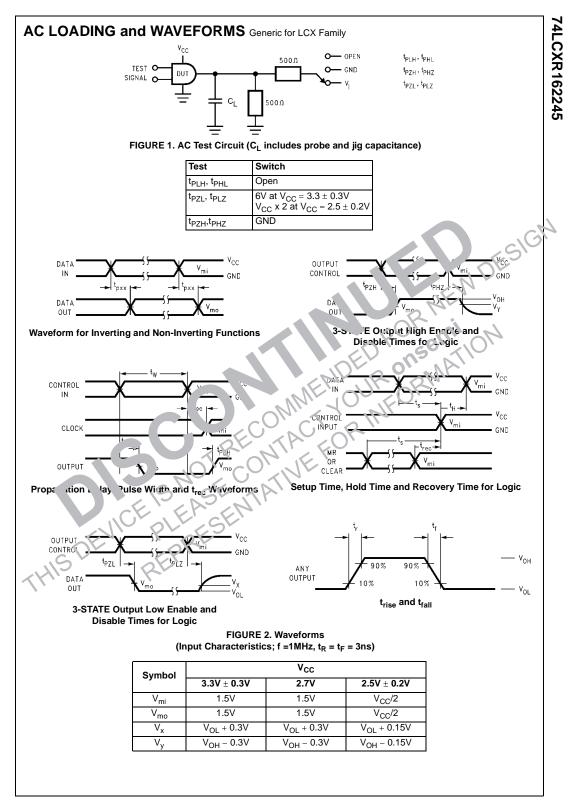
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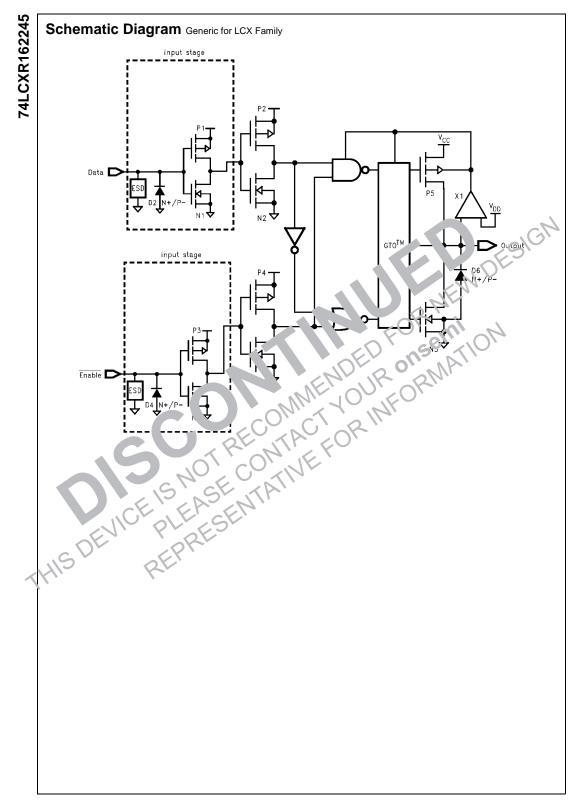
Symbol	Par ar Conditions	V _{CC} (V)	T _A = 25°C Typical	Units
V _{OLP}	Quiet Output Dyn. ic Peak OL $C_L = 5^{\circ} \rho I$, $A_{IL} = 3.3V V_{IL} = 0V$	3.3	0.35	V
	$C_{L} = 30 \mu F, V_{III} = 2.5 V, V_{IL} = 0 V$	2.5	0.25	v
V _{OLV}	Q t C, Jyi nic Valley v_{OL} $C_L = 50 \text{ pF}, V_{IL} = 3.3 \text{ V}, V_{IL} = 0 \text{ V}$	3.3	-0.35	N/
	$C_{L} = .30 pF, V_{IH} = 2.5V, V_{IL} = 0V$	2.5	-0.25	v

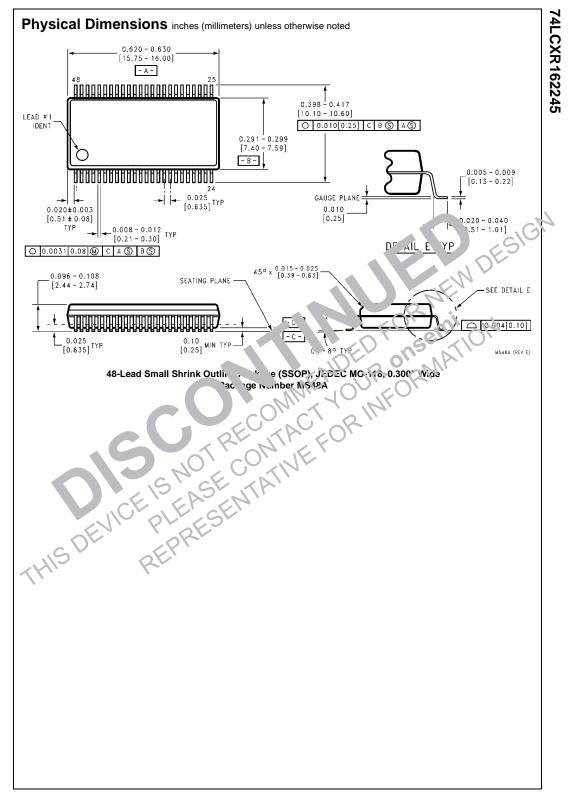
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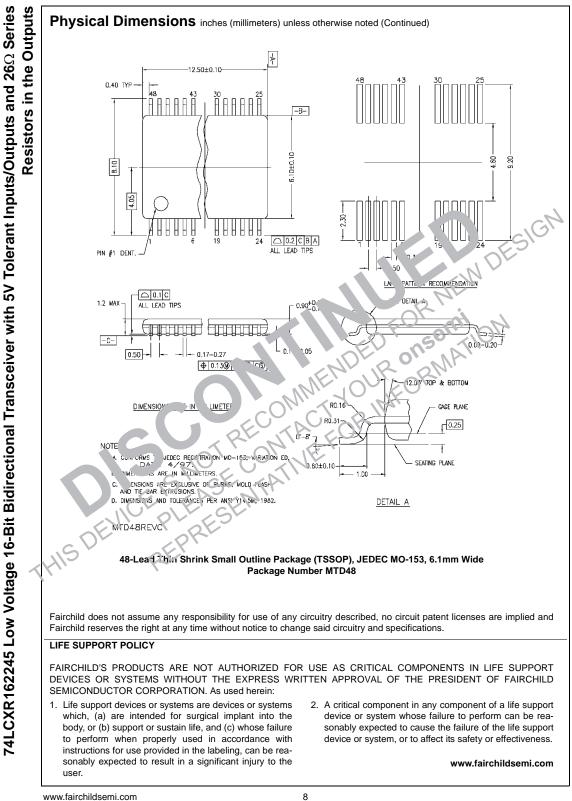
Symbol	Purameter	Conditions	Typical	Units
C _{IN}	nnut Capacitance	$V_{CC} = Open, V_I = 0V \text{ or } V_{CC}$	7	pF
C _{I/O}	nput/Output Capacitan :e	V_{CC} = 3.3V, V_{I} = 0V or V_{CC}	8	pF
CPL	Power Dissipation Copacitance	V_{CC} = 3.3V, V_{I} = 0V or V_{CC},f = 10 MHz	20	pF
	4-			











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