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January 2008

74AC10, 74ACT10 **Triple 3-Input NAND Gate**

Features

General Description

- I_{CC} reduced by 50% on 74AC only
- Outputs source/sink 24mA

The AC/ACT10 contains three, 3-input NAND gates.

Ordering Information

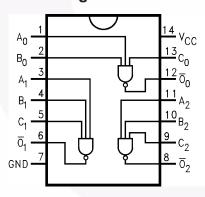
Order Number	Package Number	Package Description
74AC10SC	M14A	14-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-012, 0.150" Narrow
74AC10SJ	M14D	14-Lead Small Outline Package (SOP), EIAJ TYPE II, 5.3mm Wide
74AC10MTC	MTC14	14-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide
74AC10PC	N14A	14-Lead Plastic Dual-In-Line Package (PDIP), JEDEC MS-001, 0.300" Wide
74ACT10SC	M14A	14-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-012, 0.150" Narrow
74ACT10MTC	MTC14	14-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide

Device also available in Tape and Reel. Specify by appending suffix letter "X" to the ordering number.

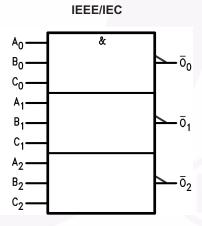


All packages are lead free per JEDEC: J-STD-020B standard.

Connection Diagram



Logic Symbol



Pin Description

Pin Names	Description
A _n , B _n , C _n	Inputs
\overline{O}_n	Outputs

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only.

Symbol	Parameter	Rating
V _{CC}	Supply Voltage	-0.5V to +7.0V
I _{IK}	DC Input Diode Current	
	$V_{I} = -0.5V$	–20mA
	$V_I = V_{CC} + 0.5V$	+20mA
VI	DC Input Voltage	-0.5V to V _{CC} + 0.5V
I _{OK}	DC Output Diode Current	
	$V_{O} = -0.5V$	–20mA
	$V_{O} = V_{CC} + 0.5V$	+20mA
Vo	DC Output Voltage	-0.5V to V _{CC} + 0.5V
Io	DC Output Source or Sink Current	±50mA
I _{CC} or I _{GND}	DC V _{CC} or Ground Current per Output Pin	±50mA
T _{STG}	Storage Temperature	−65°C to +150°C
T _J	Junction Temperature	140°C

Recommended Operating Conditions

The Recommended Operating Conditions table defines the conditions for actual device operation. Recommended operating conditions are specified to ensure optimal performance to the datasheet specifications. Fairchild does not recommend exceeding them or designing to absolute maximum ratings.

Symbol	Parameter	Rating		
V _{CC}	Supply Voltage			
	AC	2.0V to 6.0V		
	ACT	4.5V to 5.5V		
V _I	Input Voltage	0V to V _{CC}		
V _O	Output Voltage 0V to			
T _A	Operating Temperature -40°C to +85			
ΔV / Δt	Minimum Input Edge Rate, AC Devices: 125m\			
	V _{IN} from 30% to 70% of V _{CC} , V _{CC} @ 3.3V, 4.5V, 5.5V			
ΔV / Δt	Minimum Input Edge Rate, ACT Devices: 125mV/			
	V _{IN} from 0.8V to 2.0V, V _{CC} @ 4.5V, 5.5V			

DC Electrical Characteristics for AC

		V _{CC}		T _A = +	+25°C	T _A = -40°C to +85°C	
Symbol	Parameter	(V)	Conditions	Тур.	G	uaranteed Limits	Units
V _{IH}	Minimum HIGH Level	3.0	$V_{OUT} = 0.1V$	1.5	2.1	2.1	V
	Input Voltage	4.5	or V _{CC} – 0.1V	2.25	3.15	3.15	
		5.5		2.75	3.85	3.85	
V _{IL}	Maximum LOW Level	3.0	$V_{OUT} = 0.1V$	1.5	0.9	0.9	V
	Input Voltage	4.5	or V _{CC} – 0.1V	2.25	1.35	1.35	
		5.5		2.75	1.65	1.65	
V _{OH}	Minimum HIGH Level	3.0	$I_{OUT} = -50\mu A$	2.99	2.9	2.9	V
	Output Voltage	4.5		4.49	4.4	4.4	
		5.5		5.49	5.4	5.4	
		3.0	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OH} = -12\text{mA}$		2.56	2.46	
		4.5	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OH} = -24\text{mA}$		3.86	3.76	
		5.5	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OH} = -24\text{mA}^{(1)}$		4.86	4.76	
V _{OL}	Maximum LOW Level	3.0	$I_{OUT} = 50\mu A$	0.002	0.1	0.1	V
	Output Voltage	4.5		0.001	0.1	0.1	
		5.5		0.001	0.1	0.1	
		3.0	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OL} = 12\text{mA}$		0.36	0.44	
		4.5	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OL} = 24\text{mA}$		0.36	0.44	
		5.5	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OL} = 24\text{mA}^{(1)}$		0.36	0.44	
I _{IN} ⁽³⁾	Maximum Input Leakage Current	5.5	$V_I = V_{CC}$ or GND		±0.1	±1.0	μA
I _{OLD}	Minimum Dynamic	5.5	V _{OLD} = 1.65V Max.			75	mA
I _{OHD}	Output Current ⁽²⁾	5.5	V _{OHD} = 3.85V Min.			– 75	mA
I _{CC} ⁽³⁾	Maximum Quiescent Supply Current	5.5	$V_{IN} = V_{CC}$ or GND		2.0	20.0	μA

Notes:

- 1. All outputs loaded; thresholds on input associated with output under test.
- 2. Maximum test duration 2.0ms, one output loaded at a time.
- 3. $I_{\mbox{\footnotesize{IN}}}$ and $I_{\mbox{\footnotesize{CC}}}$ @ 3.0V are guaranteed to be less than or equal to the respective limit @ 5.5V $V_{\mbox{\footnotesize{CC}}}.$

DC Electrical Characteristics for ACT

		V _{CC}		T _A = +	+25°C	T _A = -40°C to +85°C	
Symbol	Parameter	(V)	Conditions	Тур.	G	Buaranteed Limits	Units
V _{IH}	Minimum HIGH Level	4.5	$V_{OUT} = 0.1V$ or	1.5	2.0	2.0	V
	Input Voltage	5.5	V _{CC} – 0.1V	1.5	2.0	2.0	
V _{IL}	Maximum LOW Level	4.5	$V_{OUT} = 0.1V$ or	1.5	0.8	0.8	V
	Input Voltage	5.5	V _{CC} – 0.1V	1.5	0.8	0.8	
V _{OH}	Minimum HIGH Level	4.5	$I_{OUT} = -50\mu A$	4.49	4.4	4.4	V
	Output Voltage	5.5		5.49	5.4	5.4	
		4.5	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OH} = -24\text{mA}$		3.86	3.76	
		5.5	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OH} = -24\text{mA}^{(4)}$		4.86	4.76	
V _{OL}	Maximum LOW Level	4.5	I _{OUT} = 50μA	0.001	0.1	0.1	V
	Output Voltage	5.5		0.001	0.1	0.1	
		4.5	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OL} = 24\text{mA}$		0.36	0.44	
		5.5	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OL} = 24\text{mA}^{(4)}$		0.36	0.44	
I _{IN}	Maximum Input Leakage Current	5.5	$V_I = V_{CC}$, GND		±0.1	±1.0	μA
I _{CCT}	Maximum I _{CC} /Input	5.5	$V_I = V_{CC} - 2.1V$	0.6		1.5	mA
I _{OLD}	Minimum Dynamic	5.5	$V_{OLD} = 1.65V Max.$			75	mA
I _{OHD}	Output Current ⁽⁵⁾	5.5	V _{OHD} = 3.85V Min.			- 75	mA
I _{CC}	Maximum Quiescent Supply Current	5.5	$V_{IN} = V_{CC}$ or GND		4.0	40.0	μA

Notes:

- 4. All outputs loaded; thresholds on input associated with output under test.
- 5. Maximum test duration 2.0ms, one output loaded at a time.

AC Electrical Characteristics for AC

			T _A	_ = +25° L = 50p	C, F		to +85°C, 50pF	
Symbol	Parameter	$V_{CC}(V)^{(6)}$	Min.	Тур.	Max.	Min.	Max.	Units
t _{PLH}	Propagation Delay	3.3	1.5	6.0	9.5	1.0	10.5	ns
		5.0	1.5	4.5	7.0	1.0	8.0	
t _{PHL}	Propagation Delay	3.3	1.5	5.5	8.5	1.0	10.0	ns
		5.0	1.5	4.0	6.0	1.0	6.5	

Note:

6. Voltage range 3.3 is $3.3V \pm 0.3V$. Voltage range 5.0 is $5.0V \pm 0.5V$.

AC Electrical Characteristics for ACT

				_λ = +25° C _L = 50p		T _A = -40°C C _L =	to +85°C, 50pF	
Symbol	Parameter	$V_{CC}(V)^{(7)}$	Min.	Тур.	Max.	Min.	Max.	Units
t _{PLH}	Propagation Delay	5.0	1.0	6.5	9.0	1.0	10.0	ns
t _{PHL}	Propagation Delay	5.0	1.0	6.5	9.0	1.0	9.5	ns

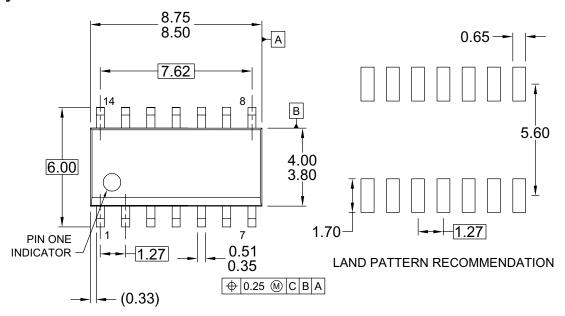
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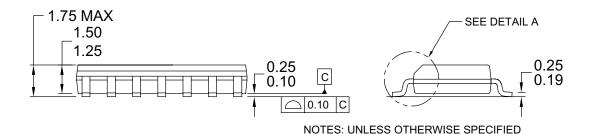
7. Voltage Range 5.0 is 5.0V ± 0.5V.

Capacitance

Symbol	Parameter	Conditions	Тур.	Units
C _{IN}	Input Capacitance	V _{CC} = OPEN	4.5	pF
C _{PD}	Power Dissipation Capacitance	V _{CC} = 5.0V	25.0	pF

Physical Dimensions





A) THIS PACKAGE CONFORMS TO JEDEC MS-012, VARIATION AB, ISSUE C,

- B) ALL DIMENSIONS ARE IN MILLIMETERS.
- C) DIMENSIONS DO NOT INCLUDE MOLD FLASH OR BURRS.
- D) LANDPATTERN STANDARD: SOIC127P600X145-14M
- E) DRAWING CONFORMS TO ASME Y14.5M-1994
- F) DRAWING FILE NAME: M14AREV13

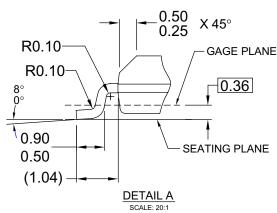


Figure 1. 14-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-012, 0.150" Narrow

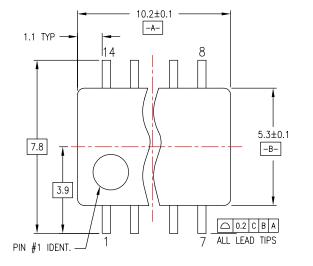
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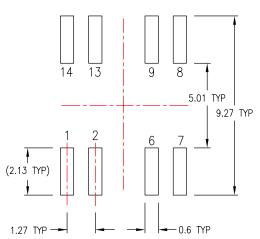
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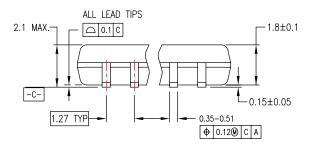
Physical Dimensions (Continued)

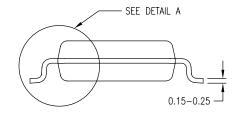
Dimensions are in millimeters unless otherwise noted.





LAND PATTERN RECOMMENDATION





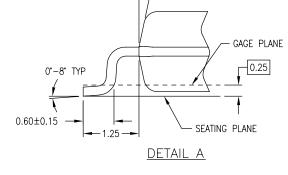
DIMENSIONS ARE IN MILLIMETERS

NOTES:

- A. CONFORMS TO EIAJ EDR-7320 REGISTRATION,
- A. CONFORMS TO EAST EDR 7-7520 REDISTRATION, ESTABLISHED IN DECEMBER, 1998.

 B. DIMENSIONS ARE IN MILLIMETERS.

 C. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH, AND TIE BAR EXTRUSIONS.



M14DREVC

Figure 2. 14-Lead Small Outline Package (SOP), EIAJ TYPE II, 5.3mm Wide

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Physical Dimensions (Continued) 5.0±0.1 -A-0.65 0.43 TYP 6.4 4.4±0.1 -B-1.65 3.2 □ 0.2 C B A PIN #1 IDENT. 6.10 0.45LAND PATTERN RECOMMENDATION SEE DETAIL A ALL LEAD TIPS 0.90^{+0.15} 1.2 MAX □ 0.1 C 0.09-0.20 -C-0.10±0.05 0.65 0.19 - 0.30⊕ (0.13\mathred | A | B (S | C (S) 12.00°TOP & BOTTOM R0.09 min GAGE PLANE 0.25 0°-8° NOTES: 0.6±0.1 A. CONFORMS TO JEDEC REGISTRATION MO-153, SEATING PLANE R0.09min VARIATION AB, REF NOTE 6 -1 00 **B. DIMENSIONS ARE IN MILLIMETERS DETAIL A** C. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH,

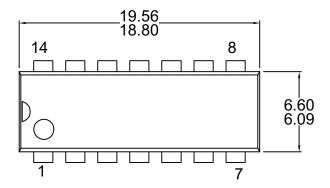
- AND TIE BAR EXTRUSIONS
- D. DIMENSIONING AND TOLERANCES PER ANSI Y14.5M, 1982
- E. LANDPATTERN STANDARD: SOP65P640X110-14M
- F. DRAWING FILE NAME: MTC14REV6

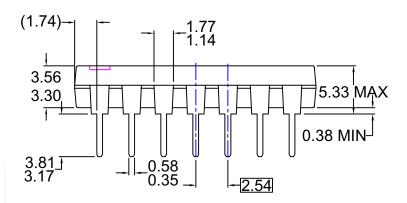
Figure 3. 14-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide

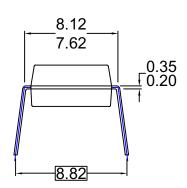
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Physical Dimensions (Continued)







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- B) ALL DIMENSIONS ARE IN MILLIMETERS.
 DIMENSIONS ARE EXCLUSIVE OF BURRS.
- C) MOLD FLASH, AND TIE BAR EXTRUSIONS.
- D) DIMENSIONS AND TOLERANCES PER ASME Y14.5-1994
- E) DRAWING FILE NAME: MKT-N14AREV7

Figure 4. 14-Lead Plastic Dual-In-Line Package (PDIP), JEDEC MS-001, 0.300" Wide

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