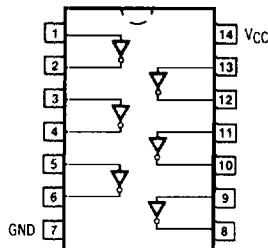




MOTOROLA

Product Preview Hex Inverter

- Outputs Source/Sink 24 mA
- 'ACT04 Has TTL Compatible Inputs



**MC74AC04
MC74ACT04**

HEX INVERTER



N SUFFIX
CASE 646-06
PLASTIC



D SUFFIX
CASE 751A-02
PLASTIC

DC CHARACTERISTICS (unless otherwise specified)

Symbol	Parameter	Value	Units	Test Conditions
I _{CC}	Maximum Quiescent Supply Current	40	μA	V _{IN} = V _{CC} or Ground, V _{CC} = 5.5 V, T _A = Worst Case
I _{CC}	Maximum Quiescent Supply Current	4.0	μA	V _{IN} = V _{CC} or Ground, V _{CC} = 5.5 V, T _A = 25°C
I _{CCT}	Maximum Additional I _{CC} /Input ('ACT04)	1.5	mA	V _{IN} = V _{CC} - 2.1 V V _{CC} = 5.5 V, T _A = Worst Case

AC CHARACTERISTICS (For Figures and Waveforms — See Section 3)

Symbol	Parameter	V _{CC} * (V)	74AC			74AC			Units	Fig. No.		
			T _A = +25°C C _L = 50 pF			T _A = -40°C to +85°C C _L = 50 pF						
			Min	Typ	Max	Min	Max					
t _{PLH}	Propagation Delay	3.3 5.0	1.0 1.0	4.5 4.0	9.0 7.0	1.0 1.0	10 7.5	ns	3-5			
t _{PHL}	Propagation Delay	3.3 5.0	1.0 1.0	4.5 3.5	8.5 6.5	1.0 1.0	9.5 7.0	ns	3-5			

*Voltage Range 3.3 is 3.3 V ± 0.3 V

Voltage Range 5.0 is 5.0 V ± 0.5 V

This document contains information on a product under development. Motorola reserves the right to change or discontinue this product without notice.

MC74AC04 • MC74ACT04

AC CHARACTERISTICS (For Figures and Waveforms — See Section 3)

Symbol	Parameter	V _{CC} * (V)	74ACT			74ACT			Units	Fig. No.		
			T _A = +25°C C _L = 50 pF			T _A = -40°C to +85°C C _L = 50 pF						
			Min	Typ	Max	Min	Max					
t _{PLH}	Propagation Delay	5.0		4.5					ns	3-6		
t _{PHL}	Propagation Delay	5.0		3.9					ns	3-6		

*Voltage Range 5.0 to 5.0 V ± 0.5 V

CAPACITANCE

Symbol	Parameter	Value Typ	Units	Test Conditions
C _{IN}	Input Capacitance	4.5	pF	V _{CC} = 5.0 V
CPD	Power Dissipation Capacitance	30	pF	V _{CC} = 5.0 V