

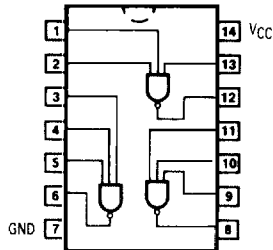


MOTOROLA

Product Preview

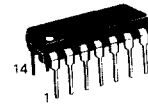
Triple 3-Input NAND Gate

- Outputs Source/Sink 24 mA
- 'ACT10 Has TTL Compatible Inputs

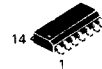


MC74AC10
MC74ACT10

**TRIPLE 3-INPUT
NAND GATE**



**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, $V_{CC} = 5.5 V$, $T_A = \text{Worst Case}$
I_{CC}	Maximum Quiescent Supply Current	4.0	μA	$V_{IN} = V_{CC}$ or Ground, $V_{CC} = 5.5 V$, $T_A = 25^\circ C$

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	6.0 4.5	9.5 7.0	1.0 1.0	10.5 8.0	ns	3-5
t _{PHL}	Propagation Delay	3.3 5.0	1.0 1.0	5.5 4.0	8.5 6.0	1.0 1.0	10 6.5	ns	3-5

*Voltage Range 3.3 is $3.3 V \pm 0.3 V$
Voltage Range 5.0 is $5.0 V \pm 0.5 V$

AC CHARACTERISTICS — MC74ACT10 (Contact Local Motorola Sales Office)

CAPACITANCE

Symbol	Parameter	Value Typ	Units	Test Conditions
C_{IN}	Input Capacitance	4.5	pF	$V_{CC} = 5.0 V$
C_{PD}	Power Dissipation Capacitance	25	pF	$V_{CC} = 5.0 V$

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

FACT DATA