

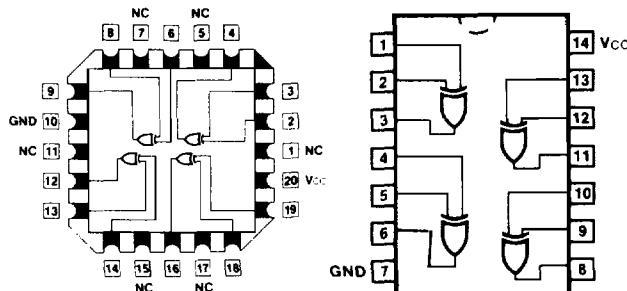
54AC/74AC86

Quad 2-Input Exclusive-OR Gate

Connection Diagrams

- Outputs Source/Sink 24 mA

Ordering Code: See Section 6



Pin Assignment
for LCC

Pin Assignment
for DIP, Flatpak and SOIC

DC Characteristics over Operating Temperature Range (unless otherwise specified)

Symbol	Parameter	54AC	74AC	Units	Conditions	5
I _{CC}	Maximum Quiescent Supply Current	80	40	μA	V _{IN} = V _{CC} or Ground, V _{CC} = 5.5 V, TA = Worst Case	
I _{CC}	Maximum Quiescent Supply Current	4.0	4.0	μA	V _{IN} = V _{CC} or Ground, V _{CC} = 5.5 V, TA = 25°C	

AC Characteristics

Symbol	Parameter	V _{CC} * (V)	74AC		54AC		74AC		Units	Fig. No.	
			TA = +25°C CL = 50 pF		TA = -55°C to +125°C CL = 50 pF		TA = -40°C to +85°C CL = 50 pF				
			Min	Typ	Max	Min	Max	Min	Max		
t _{PHL}	Propagation Delay Inputs to Outputs	3.3 5.0		6.0 4.5						ns 3-5	
t _{PLH}	Propagation Delay Inputs to Outputs	3.3 5.0		6.5 4.5						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

Military parameters given herein are for general references only. For current military specifications and subgroup testing information please request Fairchild's Table I data sheet from your Fairchild sales engineer or account representative.

Capacitance

Symbol	Parameter	54/74AC/ACT	Units	Conditions
		Typ		
C _{IN}	Input Capacitance	4.5	pF	V _{CC} = 5.5 V
C _{PD}	Power Dissipation Capacitance		pF	V _{CC} = 5.5 V