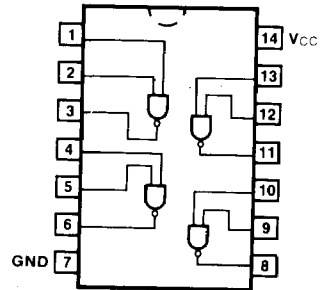
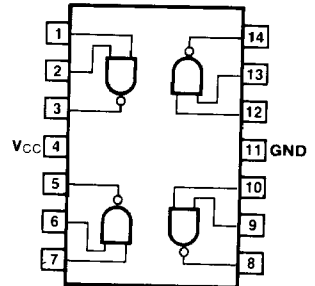


**54/7400** ✓ 011065  
**54H/74H00** ✓ 011069  
**54S/74S00** ✓ 011574  
**54LS/74LS00** ✓ 011068  
**QUAD 2-INPUT NAND GATE**

**CONNECTION DIAGRAMS**  
PINOUT A



PINOUT B



**ORDERING CODE:** See Section 9

PKGS	PIN OUT	COMMERCIAL GRADE	MILITARY GRADE	PKG TYPE
		V <sub>CC</sub> = +5.0 V ±5%, T <sub>A</sub> = 0° C to +70° C	V <sub>CC</sub> = +5.0 V ±10%, T <sub>A</sub> = -55° C to +125° C	
Plastic DIP (P)	A	7400PC, 74H00PC 74LS00PC, 74S00PC		9A
Ceramic DIP (D)	A	7400DC, 74H00DC 74LS00DC, 74S00DC	5400DM, 54H00DM 54LS00DM, 54S00DM	6A
Flatpak (F)	A	74LS00FC, 74S00FC	54LS00FM, 54S00FM	3I
	B	7400FC, 74H00FC	5400FM, 54H00FM	

**INPUT LOADING/FAN-OUT:** See Section 3 for U.L. definitions

PINS	54/74 (U.L.) HIGH/LOW	54/74H (U.L.) HIGH/LOW	54/74S (U.L.) HIGH/LOW	54/74LS (U.L.) HIGH/LOW
Inputs	1.0/1.0	1.25/1.25	1.25/1.25	0.5/0.25
Outputs	20/10	12.5/12.5	25/12.5	10/5.0 (2.5)

**DC AND AC CHARACTERISTICS:** See Section 3\*

SYMBOL	PARAMETER	54/74		54/74H		54/74S		54/74LS		UNITS	CONDITIONS	
		Min	Max	Min	Max	Min	Max	Min	Max			
I <sub>CC</sub> H	Power Supply	8.0		16.8		16		1.6		mA	V <sub>IN</sub> = Gnd	V <sub>CC</sub> = Max
I <sub>CC</sub> L	Current	22		40		36		4.4			V <sub>IN</sub> = Open	
t <sub>PL</sub> H	Propagation Delay	22		10		2.0	4.5	10		ns	Figs. 3-1, 3-4	
t <sub>PH</sub> L		15		10		2.0	5.0	10				

\*DC limits apply over operating temperature range; AC limits apply at T<sub>A</sub> = +25° C and V<sub>CC</sub> = +5.0 V.