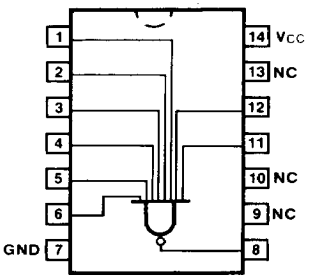
54/7430
54H/74H30
54S/74S30
54LS/74LS30

8-INPUT NAND GATE

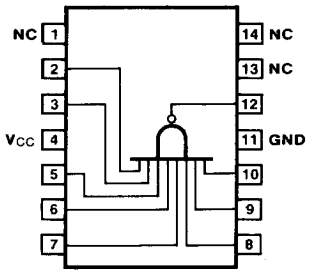
CONNECTION DIAGRAMS
PINOUT A



ORDERING CODE: See Section 9

PKGS	PIN OUT	COMMERCIAL GRADE V_{CC} = +5.0 V ±5%, T_A = 0°C to +70°C	MILITARY GRADE V_{CC} = +5.0 V ±10%, T_A = -55°C to +125°C	PKG TYPE
Plastic DIP (P)	A	7430PC, 74H30PC 74S30PC, 74LS30PC		9A
Ceramic DIP (D)	A	7430DC, 74H30DC 74S30DC, 74LS30DC	5430DM, 54H30DM 54S30DM, 54LS30DM	6A
Flatpak (F)	A	74S30FC, 74LS30FC	54S30FM, 54LS30FM	3I
	B	7430FC, 74H30FC	5430FM, 54H30FM	

PINOUT B



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 Min	54/74 Max	54/74H Min	54/74H Max	54/74S Min	54/74S Max	54/74LS Min	54/74LS Max	UNITS	CONDITIONS	
I_{CCH}	Power Supply		2.0		4.2		5.0		0.5	mA	V_{IN} = Gnd	V_{CC} = Max
I_{CCL}	Current		6.0		10		10		1.1		V_{IN} = Open	
t_{PLH}	Propagation Delay		22		10	2.0	6.0		12	ns	Figs. 3-1, 3-4	
t_{PHL}			15		12	2.0	7.0		20			

*DC limits apply over operating temperature range; AC limits apply at T_A = +25°C and V_{CC} = +5.0 V.