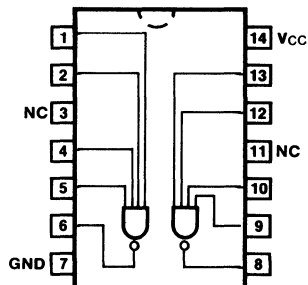


54/7440
54H/74H40
54S/74S40
54LS/74LS40

DUAL 4-INPUT NAND BUFFER

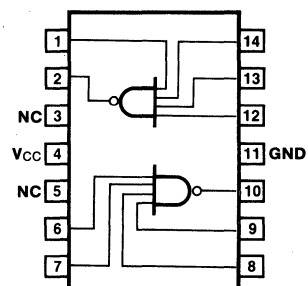
CONNECTION DIAGRAMS
PINOUT A



ORDERING CODE: See Section 9

PKGS	PIN OUT	COMMERCIAL GRADE	MILITARY GRADE	PKG TYPE
		$V_{CC} = +5.0\text{ V} \pm 5\%$, $T_A = 0^\circ\text{C to } +70^\circ\text{C}$	$V_{CC} = +5.0\text{ V} \pm 10\%$, $T_A = -55^\circ\text{C to } +125^\circ\text{C}$	
Plastic DIP (P)	A	7440PC, 74H40PC 74S40PC, 74LS40PC		9A
Ceramic DIP (D)	A	7440DC, 74H40DC 74S40DC, 74LS40DC	5440DM, 54H40DM 54S40DM, 54LS40DM	6A
Flatpak (F)	A	74S40FC, 74LS40FC	54S40FM, 54LS40FM	3I
	B	7440FC, 74H40FC	5440FM, 54H40FM	

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	2.5/2.5	2.5/2.5	0.5/0.25
Outputs	30/30	37.5/37.5	70/37.5	30/15 (7.5)

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 _{OS}	Output Short Circuit Current	X _C	-18	-70	-40	-125	-50	-225		mA	V _{CC} = Max, V _{OUT} = 0 V
		X _M	-20	-70	-40	-125	-50	-225			
I _{CC}	Power Supply Current		8.0		16		18		1.0	mA	V _{IN} = Gnd V _{IN} = Open
I _{CCL}			27		40		44		6.0		
t _{PLH}	Propagation Delay		22		12		6.5		24	ns	Figs. 3-1, 3-4
t _{PHL}			15		12		6.5		24		

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