

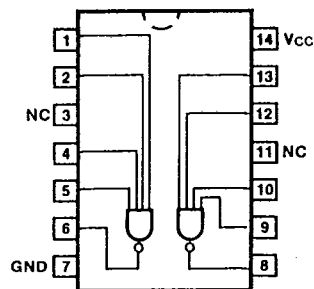
40

T-43-15

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

DUAL 4-INPUT NAND BUFFER

CONNECTION DIAGRAMS
PINOUT A



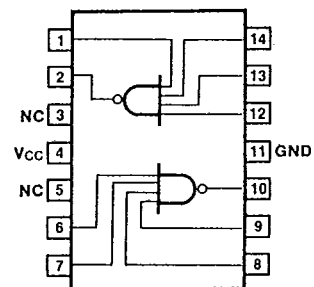
ORDERING CODE: See Section 9

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	

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)

PINOUT B



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	XC	-18	-70	-40	-125	-50	-225			mA	$V_{CC} = \text{Max}$, $V_{OUT} = 0 \text{ V}$
		XM	-20	-70	-40	-125	-50	-225				
I_{CCH} I_{CCL}	Power Supply Current		8.0		16		18		1.0		mA	$V_{IN} = \text{Gnd}$ $V_{IN} = \text{Open}$ $V_{CC} = \text{Max}$
			27		40		44		6.0			
t_{PLH} t_{PHL}	Propagation Delay		22		12		6.5		24		ns	Figs. 3-1, 3-4
			15		12		6.5		24			

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