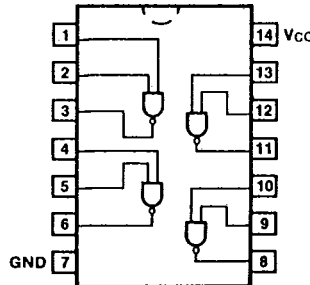


54/7437
54LS/74LS37
 QUAD 2-INPUT NAND BUFFER

CONNECTION DIAGRAM
 PINOUT A

ORDERING CODE: See Section 9

PKGS	PIN OUT	COMMERCIAL GRADE	MILITARY GRADE	PKG TYPE
		V _{CC} = +5.0 V ±5%, T _A = 0°C to +70°C	V _{CC} = +5.0 V ±10%, T _A = -55°C to +125°C	
Plastic DIP (P)	A	7437PC, 74LS37PC		9A
Ceramic DIP (D)	A	7437DC, 74LS37DC	5437DM, 54LS37DM	6A
Flatpak (F)	A	7437FC, 74LS37FC	5437FM, 54LS37FM	3I



4

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

PINS	54/74 (U.L.) HIGH/LOW	54/74LS (U.L.) HIGH/LOW
Inputs	1.0/1.0	0.5/0.25
Outputs	30/30	30/15 (7.5)

DC AND AC CHARACTERISTICS: See Section 3*

SYMBOL	PARAMETER	54/74		54/74LS		UNITS	CONDITIONS
		Min	Max	Min	Max		
V _{OH}	Output HIGH Voltage	XM	2.4	2.5		V	V _{CC} = Max, I _{OH} = -1.2 mA V _{IN} = V _{IL}
		XC	2.4	2.7			
V _{OL}	Output LOW Voltage	XM, XC	0.4			V	V _{CC} = Min V _{IN} = 2.0 V
		XM		0.4			
		XC		0.5			
I _{OS}	Output Short Circuit Current	XM	-20 -70	-30 -130		mA	V _{CC} = Min, V _{OUT} = 0 V
		XC	-18 -70	-30 -130			
I _{CCH} I _{CCL}	Power Supply Current		15.5	2.0		mA	V _{IN} = Gnd V _{IN} = Open
			54	12			
t _{PLH} t _{PHL}	Propagation Delay		22 15	20 20		ns	Figs. 3-1, 3-4

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