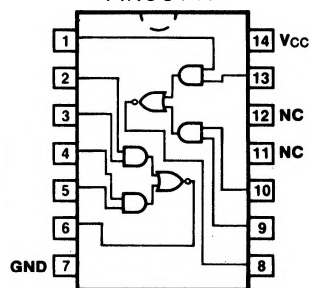


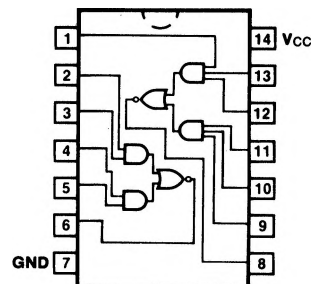
54/7451
54H/74H51
54S/74S51
54LS/74LS51

DUAL 2-WIDE, 2-INPUT AOI GATE
 DUAL 2-WIDE, 2-INPUT/3-INPUT AOI GATE ('LS51)

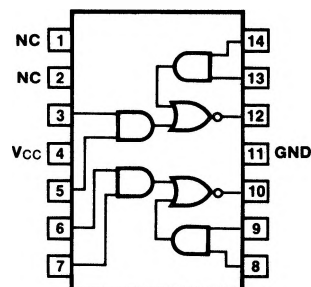
CONNECTION DIAGRAMS
PINOUT A



PINOUT B



PINOUT C



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	7451PC, 74H51PC 74S51PC		9A
	B	74LS51PC		
Ceramic DIP (D)	A	7451DC, 74H51DC 74S51DC	5451DM, 54H51DM 54S51DM	6A
	B	74LS51DC	54LS51DM	
Flatpak (F)	A	74S51FC	54S51FM	3I
	B	74LS51FC	54LS51FM	
	C	7451FC, 74H51FC	5451FM, 54H51FM	

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_{CCH} I_{CCL}	Power Supply Current	8.0 14	12.8 24	17.8 22	1.6 2.8	mA	$V_{IN} = \text{Gnd}$	$V_{CC} = \text{Max}$
							$V_{IN} = \text{Open}$	
t_{PLH} t_{PHL}	Propagation Delay	22 15	11 11	2.0 5.5 2.0 5.5	20 20	ns	Figs. 3-1, 3-4	

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