

54/7454
54H/74H54
54LS/74LS54

4-WIDE, 2-INPUT AND-OR-INVERT GATE

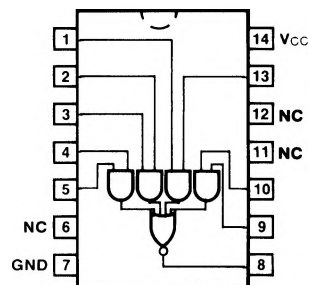
ORDERING CODE: See Section 9

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	7454PC		9A
	B	74H54PC		
	C	74LS54PC		
Ceramic DIP (D)	A	7454DC	5454DM	6A
	B	74H54DC	54H54DM	
	C	74LS54DC	54LS54DM	
Flatpak (F)	C	74LS54FC	54LS54FM	3I
	D	74H54FC	54H54FM	
	E	7454FC	5454FM	

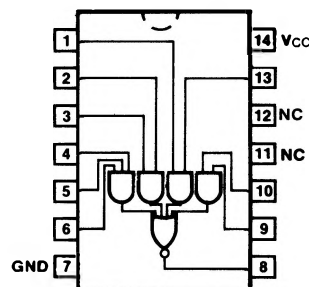
INPUT LOADING/FAN-OUT: See Section 3 for U.L. definitions

PINS	54/74 (U.L.) HIGH/LOW	54/74H (U.L.) HIGH/LOW	54/74LS (U.L.) HIGH/LOW
Inputs	1.0/1.0	1.25/1.25	0.5/0.25
Outputs	20/10	12.5/12.5	10/5.0 (2.5)

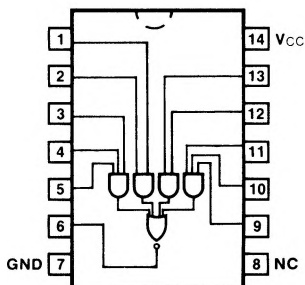
CONNECTION DIAGRAMS
PINOUT A



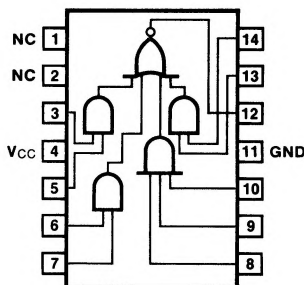
PINOUT B



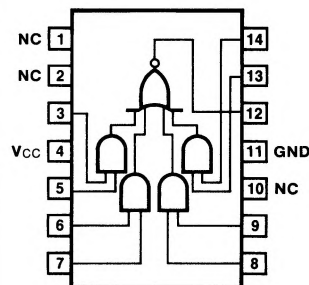
PINOUT C



PINOUT D



PINOUT E



DC AND AC CHARACTERISTICS: See Section 3*

SYMBOL	PARAMETER	54/74		54/74H		54/74LS		UNITS	CONDITIONS	
		Min	Max	Min	max	Min	Max			
ICCH ICCL	Power Supply Current	8.0		11		1.6		mA	$V_{IN} = \text{Gnd}$ $V_{IN} = \text{Open}$	$V_{CC} = \text{Max}$
tPLH tPHL	Propagation Delay	22		11		15		ns	Figs. 3-1, 3-4	
		15		11		15				

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