

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

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

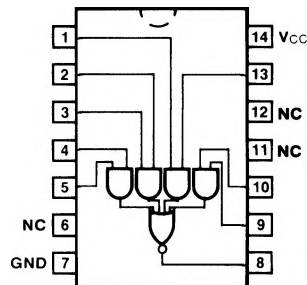
**ORDERING CODE:** See Section 9

PKGS	PIN OUT	COMMERCIAL GRADE	MILITARY GRADE	PKG TYPE
		V <sub>CC</sub> = +5.0 V ±5%, T <sub>A</sub> = 0°C to +70°C	V <sub>CC</sub> = +5.0 V ±10%, T <sub>A</sub> = -55°C to +125°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	

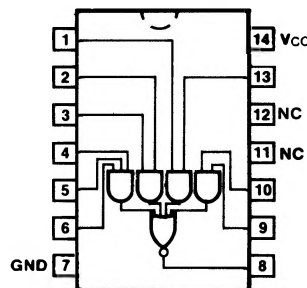
**INPUT LOADING/FAN-OUT:** See Section 3 for U.L. definitions

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)

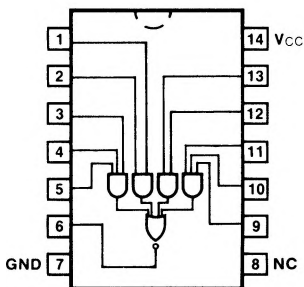
**CONNECTION DIAGRAMS**  
**PINOUT A**



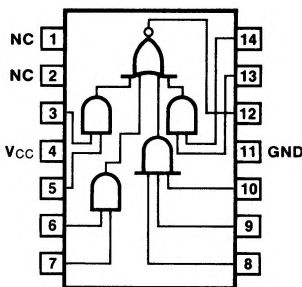
**PINOUT B**



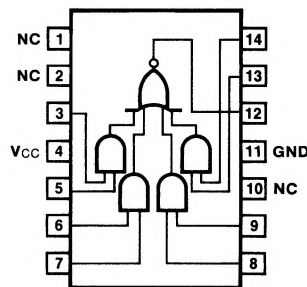
**PINOUT C**



**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			
I <sub>CC</sub> H I <sub>CC</sub> L	Power Supply Current	8.0		11		1.6		mA	V <sub>IN</sub> = Gnd	
		9.5		14		2.0			V <sub>IN</sub> = Open	
t <sub>PLH</sub> t <sub>PHL</sub>	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<sub>A</sub> = +25°C and V<sub>CC</sub> = +5.0 V.