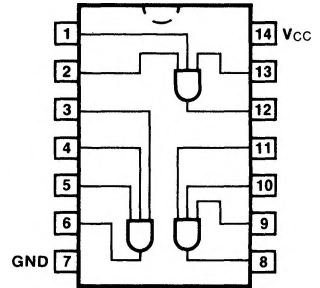


**54/7411**  
**54H/74H11**  
**54S/74S11**  
**54LS/74LS11**  
 TRIPLE 3-INPUT AND GATE

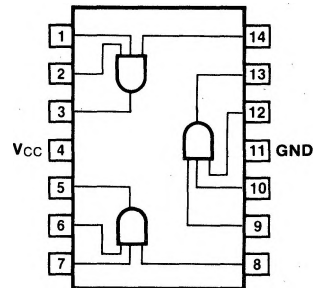
**CONNECTION DIAGRAMS**  
**PINOUT A**



**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	7411PC, 74H11PC 74S11PC, 74LS11PC		9A
Ceramic DIP (D)	A	7411DC, 74H11DC 74S11DC, 74LS11DC	5411DM, 54H11DM 54S11DM, 54LS11DM	6A
Flatpak (F)	A	74S11FC, 74LS11FC	54S11FM, 54LS11FM	3I
	B	7411FC, 74H11FC	5411FM, 54H11FM	

**PINOUT B**



**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		V <sub>CC</sub> = Max	Figs. 3-1, 3-5
I <sub>CC</sub> H	Power Supply	15	30	24	3.6	mA	V <sub>IN</sub> = Open					
I <sub>CC</sub> L	Current	24	48	42	6.6		V <sub>IN</sub> = Gnd					
t <sub>PL</sub> H	Propagation Delay	27	12	2.5	7.0	13	ns					
t <sub>PH</sub> L		19	12	2.5	7.5	11						

\*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.