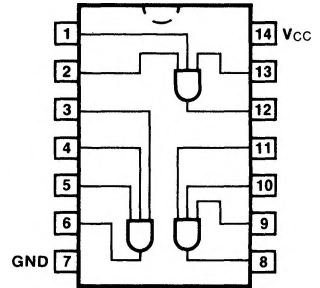


54/7411
54H/74H11
54S/74S11
54LS/74LS11
 TRIPLE 3-INPUT AND GATE

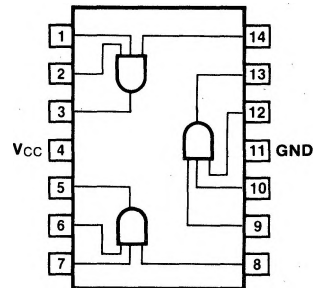
CONNECTION DIAGRAMS
PINOUT A



ORDERING CODE: See Section 9

PKGS	PIN OUT	COMMERCIAL GRADE	MILITARY GRADE	PKG TYPE
		$V_{CC} = +5.0\text{ V} \pm 5\%$, $T_A = 0^\circ\text{C to } +70^\circ\text{C}$	$V_{CC} = +5.0\text{ V} \pm 10\%$, $T_A = -55^\circ\text{C to } +125^\circ\text{C}$	
Plastic DIP (P)	A	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		$V_{IN} = \text{Open}$ $V_{IN} = \text{Gnd}$	$V_{CC} = \text{Max}$
I_{CCH}	Power Supply	15	30	24	3.6	mA						
I_{CCL}	Current	24	48	42	6.6							
t_{PLH}	Propagation Delay	27	12	2.5	7.0	13	ns	Figs. 3-1, 3-5				
t_{PHL}		19	12	2.5	7.5	11						

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