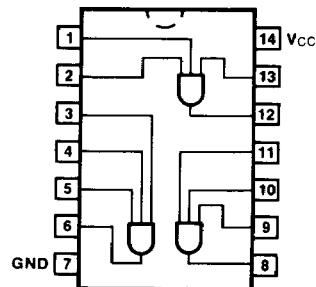


✓ 54/7411 011028 S  
 ✓ 54H/74H11 011032  
 ✓ 54S/74S11 011033  
 ✓ 54LS/74LS11 011031  
**TRIPLE 3-INPUT AND GATE**

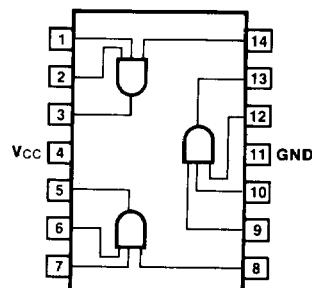
**CONNECTION DIAGRAMS**  
PINOUT A



**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			
$I_{CC}$	Power Supply	15	30	24	3.6	mA	$V_{IN} = \text{Open}$	$V_{CC} = \text{Max}$
$I_{CCL}$	Current	24	48	42	6.6		$V_{IN} = \text{Gnd}$	
$t_{PLH}$	Propagation Delay	27	12	2.5	7.0	ns	Figs. 3-1, 3-5	
$t_{PHL}$		19	12	2.5	7.5			

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