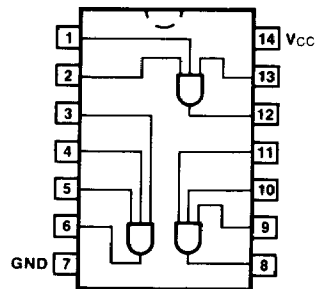


✓ 54/7411 011028S
 ✓ 54H/74H11 011032
 ✓ 54S/74S11 011033
 ✓ 54LS/74LS11 011031
TRIPLE 3-INPUT AND GATE

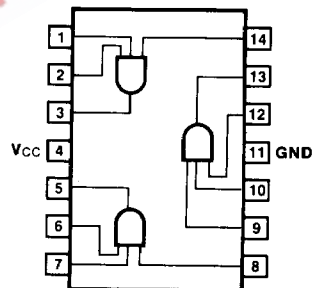
CONNECTION DIAGRAMS
PINOUT A



ORDERING CODE: See Section 9

| PKGS | PIN OUT | COMMERCIAL GRADE | MILITARY GRADE | PKG TYPE |
|-----------------|---------|--|--|----------|
| | | V _{CC} = +5.0 V ±5%, T _A = 0°C to +70°C | V _{CC} = +5.0 V ±10%, T _A = -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 | | | |
| I _{CC} H | Power Supply | 15 | 30 | 24 | 3.6 | mA | V _{IN} = Open | V _{CC} = Max |
| I _{CC} L | Current | 24 | 48 | 42 | 6.6 | | V _{IN} = Gnd | |
| 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°C and V_{CC} = +5.0 V.