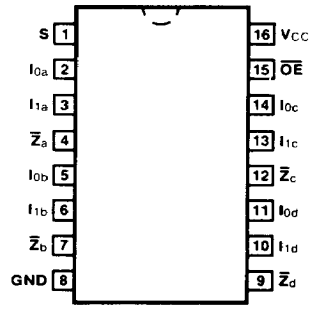
# 54LS/74LS258A

## QUAD 2-INPUT MULTIPLEXER

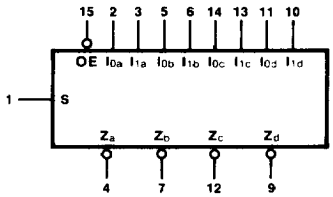
(With 3-State Outputs)

**CONNECTION DIAGRAM**
PINOUT A




**DESCRIPTION** — The '258A is the same as the '258, except that the output drive capability is increased as indicated in the tables below. The ac test limits are the same as the '258 but with the test load changed to 667 Ω and 45 pF, except for the Output Disable Time tests, whose load is 667 Ω and 5 pF. For all other information please refer to the '258 data sheet.

**LOGIC SYMBOL**




VCC = Pin 16
GND = Pin 8

**ORDERING CODE:** See Section 9

| PKGS | PIN OUT | COMMERCIAL GRADE: VCC = +5.0 V ±5%, TA = 0° C to +70° C | MILITARY GRADE: VCC = +5.0 V ±10%, TA = -55° C to +125° C | PKG TYPE |
|---|---|---|---|---|
| Plastic DIP (P) | A | 74LS258APC | | 9B |
| Ceramic DIP (D) | A | 74LS258ADC | 54LS258ADM | 6B |
| Flatpak (F) | A | 74LS258AFC | 54LS258AFM | 4L |

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

| PIN NAMES | DESCRIPTION | 54/74LS (U.L.) HIGH/LOW |
|---|---|---|
| $\overline{Z}_n$ | Inverting 3-State Outputs | 65/15 (25)/(7.5) |

**DC CHARACTERISTICS OVER OPERATING TEMPERATURE RANGE** (unless otherwise specified)

| SYMBOL | PARAMETER | | 54/74LS Min | 54/74LS Max | UNITS | CONDITIONS | |
|---|---|---|---|---|---|---|---|
| VOL | Output LOW Voltage | XM, XC | | 0.4 | V | IOL = 12 mA | VCC = Min |
| | | XC | | 0.5 | | IOL = 24 mA | |
| IOS | Output Short Circuit Current | | -30 | -130 | mA | VCC = Max | |