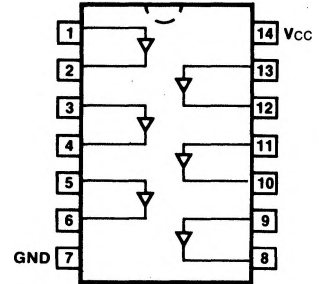


54/7417

HEX BUFFER/DRIVER

(With Open-Collector High-Voltage Output)

CONNECTION DIAGRAM 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 | 7417PC | | 9A |
| Ceramic DIP (D) | A | 7417DC | 5417DM | 6A |
| Flatpak (F) | A | 7417FC | 5417FM | 3I |

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

| PINS | 54/74 (U.L.) HIGH/LOW |
|---------|--------------------------|
| Inputs | 1.0/1.0 |
| Outputs | OC**/10' |

DC AND AC CHARACTERISTICS: See Section 3*

| SYMBOL | PARAMETER | 54/74 | | UNITS | CONDITIONS | |
|--------|----------------------|--------|------|-------|---|--|
| | | Min | Max | | | |
| VOL | Output LOW Voltage | XC | 0.7 | V | $I_{OL} = 40\text{ mA}$ | $V_{CC} = \text{Min}$ $V_{IN} = V_{IL}$ |
| | | XM | 0.7 | | $I_{OL} = 30\text{ mA}$ | |
| | | XC, XM | 0.4 | | $I_{OL} = 16\text{ mA}$ | |
| IOH | Output HIGH Current | | 0.25 | mA | $V_{OH} = 15\text{ V}$, $V_{CC} = \text{Min}$, $V_{IN} = V_{IH}$ | |
| ICCH | Power Supply Current | | 41 | mA | $V_{IN} = \text{Open}$ | $V_{CC} = \text{Max}$ |
| ICCL | | | 30 | | $V_{IN} = \text{Gnd}$ | |
| tPLH | Propagation Delay | | 10 | ns | Figs. 3-2, 3-5 | |
| tPHL | | | 30 | | | |

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

**OC—Open Collector