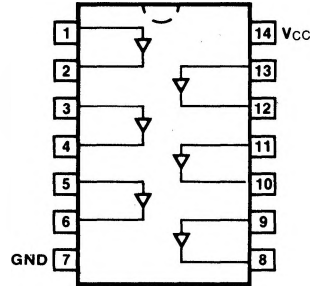


54/7407

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	7407PC		9A
Ceramic DIP (D)	A	7407DC	5407DM	6A
Flatpak (F)	A	7407FC	5407FM	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	$V_{OH} = 30\text{ V}$, $V_{CC} = \text{Min}$, $V_{IN} = V_{IH}$	
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	Fig. 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