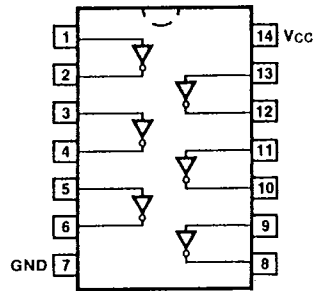


# 54/7416

## HEX INVERTER 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 <sub>CC</sub> = +5.0 V ±5%, T <sub>A</sub> = 0°C to +70°C	V <sub>CC</sub> = +5.0 V ±10%, T <sub>A</sub> = -55°C to +125°C	
Plastic DIP (P)	A	7416PC		9A
Ceramic DIP (D)	A	7416DC	5416DM	6A
Flatpak (F)	A	7416FC	5416FM	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			
V <sub>OL</sub>	Output LOW Voltage	XC	0.7	V	IoL = 40 mA	V <sub>CC</sub> = Min V <sub>IN</sub> = V <sub>IH</sub>
		XM	0.7		IoL = 30 mA	
		XC, XM	0.4		IoL = 16 mA	
I <sub>OH</sub>	Output HIGH Current		0.25	mA	V <sub>OH</sub> = 15 V, V <sub>CC</sub> = Min V <sub>IN</sub> = V <sub>IL</sub>	
I <sub>CCH</sub>	Power Supply Current		48	mA	V <sub>IN</sub> = Gnd	V <sub>CC</sub> = Max
I <sub>CCL</sub>			51		V <sub>IN</sub> = Open	
t <sub>PLH</sub> t <sub>PHL</sub>	Propagation Delay		15 23	ns	Figs. 3-2, 3-4	

\*DC limits apply over operating temperature range; AC limits apply at T<sub>A</sub> = +25°C and V<sub>CC</sub> = +5.0 V.

\*\*OC — Open Collector

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