

PART NUMBER 54H04^BCA

Rochester Electronics Manufactured Components

Rochester branded components are manufactured using either die/wafers purchased from the original suppliers or Rochester wafers recreated from the original IP. All re-creations are done with the approval of the Original Component Manufacturer. (OCM)

Parts are tested using original factory test programs or Rochester developed test solutions to guarantee product meets or exceeds the OCM data sheet.

Quality Overview

- ISO-9001
- AS9120 certification
- Qualified Manufacturers List (QML) MIL-PRF-38535
 - Class Q Military
 - Class V Space Level

Qualified Suppliers List of Distributors (QSLD)

 Rochester is a critical supplier to DLA and meets all industry and DLA standards.

Rochester Electronics, LLC is committed to supplying products that satisfy customer expectations for quality and are equal to those originally supplied by industry manufacturers.

The original manufacturer's datasheet accompanying this document reflects the performance and specifications of the Rochester manufactured version of this device. Rochester Electronics guarantees the performance of its semiconductor products to the original OCM specifications. 'Typical' values are for reference purposes only. Certain minimum or maximum ratings may be based on product characterization, design, simulation, or sample testing.

V54/7404 0/0560 V54H/74H04 C/0564 V54S/74S04 C/0565 V54S/74S04A C/0565 V54LS/74LS040/0563

1 14 Vcc 2 13 3 12 4 7 11 5 9 9

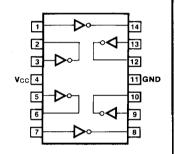
CONNECTION DIAGRAMS
PINOUT A

ORDERING CODE: See Section 9

	PIN	COMMERCIAL GRADE	MILITARY GRADE	PKG	
PKGS	оит	$V_{CC} = +5.0 \text{ V } \pm 5\%,$ $T_A = 0^{\circ}\text{C to } +70^{\circ}\text{C}$	$V_{CC} = +5.0 \text{ V} \pm 10\%,$ $T_A = -55^{\circ} \text{ C} \text{ to } +125^{\circ} \text{ C}$	TYPE	
Plastic DIP (P)	А	7404PC, 74H04PC 74S04PC, 74S04APC 74LS04PC		9A	
Ceramic DIP (D)	А	7404DC, 74H04DC 74S04DC, 74S04ADC 74LS04DC	5404DM, 54H04DM 54S04DM, 54S04ADM 54LS04DM	6A	
Flatpak (F)	Α	74S04FC, 74S04AFC 74LS04FC	54S04FM, 54S04AFM 54LS04FM	31	
	В	7404FC, 74H04FC	5404FM, 54H04FM		

HEX INVERTER

PINOUT B



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

PINS	54/74 (U.L.)	54/74H (U.L.)	54/74S (U.L.)	54/74LS (U.L.)		
	HIGH/LOW	HIGH/LOW	HIGH/LOW	HIGH/LOW		
Inputs Outputs	1.0/1.0 20/10	1.25/1.25 12.5/12.5	1.25/1.25 25/12.5	0.5/0.25 10/5.0 (2.5)		

DC AND AC CHARACTERISTICS: See Section 3*

SYMBOL	PARAMETER	54/74		54/74H		54/74S		54/74LS		UNITS	CONDITIONS		
	TANAME TEN	Min	Max	Min	Max	Min	Max	Min	Max				
Іссн	Power Supply		12		26		24		2.4	mA	V _{IN} = Gnd	V _{CC} = Max	
ICCL	Current		33		58		54		6.6		V _{IN} = Open		
tpLH tpHL	Propagation Delay		22 15		10 10	2.0 2.0	4.5 .5.0		10 10	ns	Fig. 3-1, 3-4		
tpLH tpHL	Propagation Delay (54/74S04A only)	į.			5	1.0 1.0	3.5 4.0			ns	Fig. 3-1, 3-4	4	

^{*}DC limits apply over operating temperature range; AC limits apply at TA = +25°C and Vcc = +5.0 V.