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**PART NUMBER****54126WB-ROCV**

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**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.

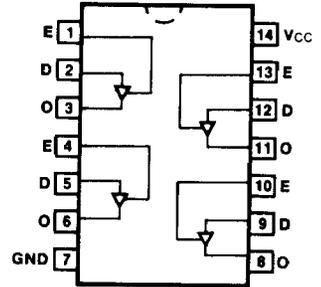
Rochester Electronics, LLC is committed to supplying products that satisfy customer expectations for quality and are equal to those originally supplied by industry manufacturers.

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*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.*

**54/74126** 010549  
**54LS/74LS126** 010550  
**QUAD BUS BUFFER GATE**  
 (With 3-State Outputs)

**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	74126PC, 74LS126PC		9A
Ceramic DIP (D)	A	74126DC, 74LS126DC	54126DM, 54LS126DM	6A
Flatpak (F)	A	74126FC, 74LS126FC	54126FM, 54LS126FM	3I

**TRUTH TABLE**

INPUTS		OUTPUT
E	D	
H	L	L
H	H	H
L	X	Z

H = HIGH Voltage Level  
 L = LOW Voltage Level  
 X = Immaterial  
 Z = High Impedance

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

PINS	54/74 (U.L.) HIGH/LOW	54/74LS (U.L.) HIGH/LOW
Inputs	1.0/1.0	0.5/0.25
Outputs	130/10 (50)	65/15 (25)/(7.5)

**DC AND AC CHARACTERISTICS:** See Section 3\*

SYMBOL	PARAMETER	54/74		54/74LS		UNITS	CONDITIONS
		Min	Max	Min	Max		
V <sub>OH</sub>	Output HIGH Voltage	XM	2.4			V	V <sub>CC</sub> = Min, V <sub>IN</sub> = V <sub>IH</sub> or V <sub>IL</sub>
		XC	2.4				
		XM		2.4			
		XC		2.4			
I <sub>OS</sub>	Output Short Circuit Current	XM	-30 -70	-30 -130		mA	V <sub>CC</sub> = Max
		XC	-28 -70	-30 -130			
I <sub>CC</sub>	Power Supply Current			24		mA	V <sub>CC</sub> = Max V <sub>IN</sub> = Gnd
			62	20			
t <sub>PLH</sub> t <sub>PHL</sub>	Propagation Delay Data to Output		13 18	15 18	ns	Figs. 3-3, 3-5	
t <sub>pZH</sub> t <sub>pZL</sub>	Output Enable Time		18 25	20 30	ns	Figs. 3-3, 3-11, 3-12	
t <sub>PLZ</sub> t <sub>PHZ</sub>	Output Disable Time		16 18	30 30	ns	Figs. 3-3, 3-11, 3-12	

\*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.