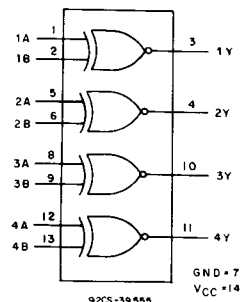


# CD54HC7266/3A

## Quad Exclusive NOR

The RCA CD54HC7266 contains four independent EXCLUSIVE-NOR gates in one package. They provide the system designer with a means for implementation of the EXCLUSIVE-NOR function.

This device is functionally the same as the TTL226. They differ in that the HC7266 has active high and low outputs whereas the 226 has open collector outputs.



### Package Specifications

See Section 11, Fig. 10

FUNCTIONAL DIAGRAM

### Static Electrical Characteristics (Limits with black dots (•) are tested 100%)

CHARACTERISTICS		TEST CONDITIONS							UNITS
		HC				V <sub>IN</sub>	LIMITS		
		V <sub>DD</sub>	V <sub>O</sub>	I <sub>O</sub>	V <sub>CC</sub> or GND	V <sub>IL</sub> or V <sub>IH</sub>	MIN.	MAX.	
Quiescent Device Current I <sub>CC</sub>	25°C	6	—	—	6, 0	—	—	2•	μA
	-55°C	6	—	—	6, 0	—	—	40•	
	+125°C	6	—	—	6, 0	—	—	40•	

The complete static electrical test specification consists of the above by-type static tests combined with the standard static tests in the beginning of this section.

### Switching Speed (Limits with black dots (•) are tested 100%.)

SWITCHING CHARACTERISTICS (C<sub>L</sub> = 50 pF, Input t<sub>r</sub>, t<sub>f</sub> = 6 ns)

CHARACTERISTIC	SYMBOL	TEST CONDITIONS V <sub>CC</sub> V	LIMITS				UNITS
			25°C		-55°C to +125°C		
			HC		54HC		
			Min.	Max.	Min.	Max.	
Propagation Delay	t <sub>PHL</sub>	2	—	115	—	150	ns
		4.5	—	23•	—	35•	
		6	—	30	—	30	
Output Transition Time	t <sub>TLH</sub> t <sub>THL</sub>	2	—	75	—	110	
		4.5	—	15	—	22	
		6	—	13	—	19	
Input Capacitance	C <sub>I</sub>	—	—	10	—	10	pF

### Burn-In Test-Circuit Connections (Use Static II for /3A burn-in and Dynamic for Life Test.)

Static	STATIC BURN-IN I			STATIC BURN-IN II		
	OPEN	GROUND	V <sub>CC</sub> (6V)	OPEN	GROUND	V <sub>CC</sub> (6V)
CD54HC7266	3,4,10,11	1,2,5,6,7,8,9,12,13	14	3,4,10,11	7	1,2,5,6,8,9,12,13,14
Dynamic	OPEN	GROUND	1/2 V <sub>CC</sub> (3V)	V <sub>CC</sub> (6V)	OSCILLATOR	
					50 kHz	25 kHz
CD54HC7266	—	7	3,4,10,11	14	1,5,8,12	2,6,9,13

NOTE: Each pin except V<sub>CC</sub> and Gnd will have a resistor of 2k-47k ohms.