

CD54AC280/3A CD54ACT280/3A

June 1997

COMPLETE DATA SHEET **COMING SOON!**

9-Bit Odd/Even Parity Generator/Checker

Description

The CD54AC280/3A and CD54ACT280/3A are 9-bit odd/ even parity generator/checkers that utilize the Harris Advanced CMOS Logic technology. Both even and odd parity outputs are available for checking or generating parity words up to nine bits long. Even parity is indicated (∑E output is HIGH) when an even number of data inputs is HIGH. Odd parity is indicated (SO output is HIGH) when an odd number of data inputs is HIGH. Parity checking for words larger than nine bits can be accomplished by tying the ΣE output to any output of an additional AC/ACT280 parity checker.

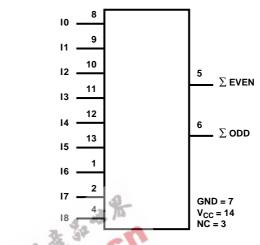
The CD54AC280/3A and CD54ACT280/3A are supplied in 14 lead dual-in-line ceramic packages (F suffix).

ACT INPUT LOAD TABLE

INPUT	UNIT LOAD (NOTE 1)
All	1.43

1. Unit load is ΔI_{CC} limit specified in DC Electrical Specifications Table, e.g., 2.4mA Max at +25°C.

Functional Diagram



Absolute Maximum Ratings

DC Supply Voltage, V _{CC} 0.5V to +6V
DC Input Diode Current, I _{IK}
For $V_1 < -0.5V$ or $V_1 > V_{CC} + 0.5V$ ±20mA
DC Output Diode Current, I _{OK}
For $V_O < -0.5V$ or $V_O > V_{CC} + 0.5V$
DC Output Source or Sink Current, Per Output Pin, IO
For $V_O > -0.5V$ or $V_O < V_{CC} + 0.5V$
DC V _{CC} or GND Current, I _{CC} or I _{GND}
For Up to 4 Outputs Per Device, Add ±25mA For Each
Additional Output±100mA

CAUTION: Stresses above those listed in "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress only rating and operation of the device at these or any other conditions above those indicated in the operational sections of this specification is not implied.

Recommended Operating Conditions

Supply Voltage Pange V

Supply voltage Range, v _{CC}	
Unless Otherwise Specified, All Voltages Referenced to GND	
T _A = Full Package Temperature Range	
CD54AC Types	
CD54ACT Types	
DC Input or Output Voltage, $V_I, V_O.$ 0V to V_{CC}	

Operating Temperature, T _A	55°C to +125°C
Input Rise and Fall Slew Rate, dt/dv	
at 1.5V to 3V (AC Types)	. 0ns/V to 50ns/V
at 3.6V to 5.5V (AC Types)	. 0ns/V to 20ns/V
at 4.5V to 5.5V (AC Types)	. 0ns/V to 10ns/V