

CD54AC244/3A CD54ACT244/3A

Octal Buffer/Line Driver Three-State, Non-Inverting

June 1997

COMPLETE DATA SHEET COMING SOON!

Description

The CD54AC244/3A and CD54ACT244/3A are three-state octal buffer/line drivers that utilize the Harris Advanced CMOS Logic technology. These devices have active-LOW output enables $(\overline{10E},\overline{20E})$

The CD54AC244/3A and CD54ACT244/3A are supplied in 20 lead dual-in-line ceramic packages (F suffix).

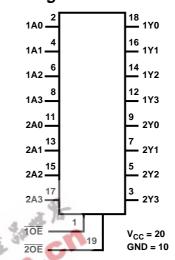
ACT INPUT LOAD TABLE

INPUT	UNIT LOAD (NOTE 1)
nA0 - A3	0.5
10E	0.83
20E	0.83

NOTE:

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 $V_O > V_{CC} + 0.5V$	±50mA
DC Output Source or Sink Current, Per Output Pin, IO	
For $V_O > -0.5V$ or $V_O < V_{CC} + 0.5V$	±50mA
DC V _{CC} or GND Current, I _{CC} or I _{GND}	
For Up to 4 Outputs Per Device, Add ±25mA For Each	ch
Additional Output	

Power Dissipation Per Package, P _D
$T_A = -55^{\circ}C$ to $+100^{\circ}C$ (Package F)
T _A = +100°C to +125°C (Package F) Derate Linearly at
8mW/°C to 300mW
Operating Temperature Range, T _A
Package Type F55°C to +125°C
Storage Temperature, T _{STG} 65°C to +150°C
Lead Temperature (During Soldering)
At Distance 1/16in. \pm 1/32in. (1.59mm \pm 0.79mm)
From Case For 10s Max+265°C
Unit Inserted Into a PC Board (Min Thickness 1/16in., 1.59mm)
With Solder Contacting Lead Tips Only+300°C

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 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)	Ons/V to 10ns/V