

**54LS/74LS248****BCD TO 7-SEGMENT DECODER**(With 2 k $\Omega$  Pull-up Resistors)

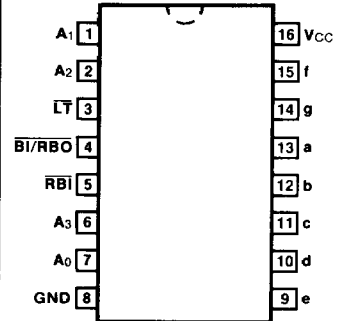
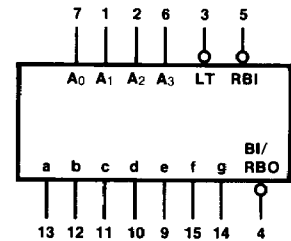
**DESCRIPTION** — The 'LS248 has active HIGH outputs with internal 2 k $\Omega$  pull-up resistors. It has the same electrical characteristics and pin connections as the 'LS48. The only difference is that the 'LS248 will light the top bar (segment a) for numeral 6 and the bottom bar (segment d) for numeral 9. For detailed description and specifications please refer to the 'LS48 data sheet.

**ORDERING CODE:** See Section 9

PKGS	PIN OUT	COMMERCIAL GRADE	MILITARY GRADE	PKG TYPE
		V <sub>CC</sub> = +5.0 V $\pm$ 5%, T <sub>A</sub> = 0°C to +70°C	V <sub>CC</sub> = +5.0 V $\pm$ 10%, T <sub>A</sub> = -55°C to +125°C	
Plastic DIP (P)	A	74LS248PC		9B
Ceramic DIP (D)	A	74LS248DC	54LS248DM	6B
Flatpak (F)	A	74LS248FC	54LS248FM	4L

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

PIN NAMES	DESCRIPTION	54/74LS (U.L.) HIGH/LOW
A <sub>0</sub> — A <sub>3</sub>	BCD Inputs	0.5/0.25
RBI	Ripple Blanking Input (Active LOW)	0.5/0.25
LT	Lamp Test Input (Active LOW)	0.5/0.25
BI/RBO	Blanking Input (Active LOW) or Ripple Blanking Output (Active LOW)	0.5/0.25 1.25/2.0 (1.0)
a — g	Segment Outputs (Active HIGH)	2.5/3.75 (1.25)

**CONNECTION DIAGRAM  
PINOUT A****LOGIC SYMBOL**

V<sub>CC</sub> = Pin 16  
GND = Pin 8