54LS/74LS249

BCD TO 7-SEGMENT DECODER

(With Open-Collector Outputs)

A1 1 16 Vcc
A2 2 15 1
LT 3 14 9
BI/RBO 4 13 a
RBI 5 12 b
A3 8 11 c
A0 7 10 d
GND 8 9 e

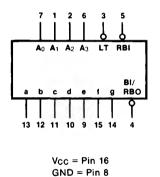
CONNECTION DIAGRAM
PINOUT A

DESCRIPTION — The 'LS249 has active HIGH open-collector outputs and is the 16-pin version of the 14-pin 'LS49. The 'LS249 incorporates the Lamp Test and BI/RBO inputs that are omitted in the 'LS49. Additionally, the 'LS249 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 'LS49 data sheet.

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)	Α	74LS249PC		9B	
Ceramic DIP (D)	Α	74LS249DC	54LS249DM	6B	
Flatpak (F)	Α	74LS249FC	54LS249FM	4L	

LOGIC SYMBOL



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

PIN NAMES	DESCRIPTION	54/74LS (U.L.) HIGH/LOW
A ₀ — A ₃ BI LT	BCD Inputs Blanking Input (Active LOW) Lamp Test Input (Active LOW)	0.5/0.25 0.5/0.25 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)	OC*/5.0 (2.5)

OC - Open Collector