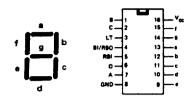


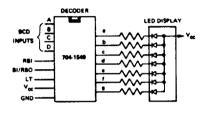
-51-17

ACTUAL SIZE



# BCD to Seven Segment Decoder Driver drives solid state LED readouts





# Operating Characteristics (Ambient Temperature 25° C)

Supply Voltage, V <sub>cc</sub>	5 ± 0.5 V		
Supply Current	55 mA		
Logic '1' \ BCD, LT, RBI	2.0 To 5.5 V		
Logic 'O' Inputs	0.0 To 0.8 V, Sink 1.6 mA		
Logic '1'   BI/RBO	2.4 V Min., <b>⊕</b> 200 µA		
Logic '1' BI/RBO Logic 'O' Dutput	0.4 V Max., Sink 8.0 mA		
OUTPUTS a-g			
Sink Current (Note 1)	20 mA, V <sub>ON</sub> = 0.4 V Max. ( 'ON' State)		
Voltage, V <sub>OFF</sub>	15 V Max., @ 250 μA ('OFF' State)		
Temperature Range	0 <sup>о</sup> то 70 <sup>о</sup> С		

Note 1. The outputs ag are open collector outputs which can sink 30 mA in the "ON" state and withstand +15V in the "OFF" state.

DECIMAL OR FUNCTION	INPUTS			0	RESULTANT
	LT	881	DCBA	81/R8O	DISPLAY
0	1	1	0000	1	0
1	1	X	0001	1	1
2	1	x	0010	1	2
3	-	×	0011	3	3
4	-	×	0100	. 1	4
6	-	×	0101	1 1	5
6		X	0110		6
7	1	×	0111	1_1_	7
	1	x	1000	1	
	-	×	1001	1	9
Bi	X	×	XXXX	0	
R91	1	0	0000	0	
LT	0	×	XXXX	1 1	

'1' = HIGH LEVEL '0' = LOW LEVEL 'X' = ANY LEVEL

 BI/RBO is wire-and logic serving as an input and/or output

### **Features**

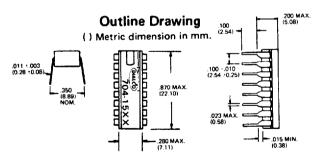
- BCD inputs compatible with DTL and TTL devices
- Monolithic MSI Integrated Circuit
- Lamp Test
- Ripple blanking capability
- Intensity control

The 704-1549 is a seven segment decoder-driver designed to convert four lines of 8421 BCD code into the appropriate outputs which will drive seven segmented readouts. It contains provisions for automatic leading and/or trailing edge zero suppression (RBI and RBO); and an active low input Lamp Test which over-rides all other inputs, except BI, to check the display. In addition, the BI input is also available for controlling the brightness of the display by modulating the input from an external variable duty cycle source.

The outputs of the 704-1549 decoder are open collector transistors with active low outputs able to drive all lamps up to a maximum of 15 volts with a sinking capability of 30 mA.

## DECODER/DRIVER

	704-1549 use with
	730-6004
	730-6001
ŀ	730-6009
	745-0017



### NOTE

Leads are for insertion in hole rows on ,300" centers. They are purposely shipped with ,350" spacing in order to provide sufficient tension necessary to secure the package in the board during soldering.

Dialight reserves the right to make changes at anytime in order to improve design and to supply the best product possible.