

Philips Components

Data sheet	
status	Product specification
date of issue	July 1990

# LTD321

## Liquid Crystal Display

T-41-38

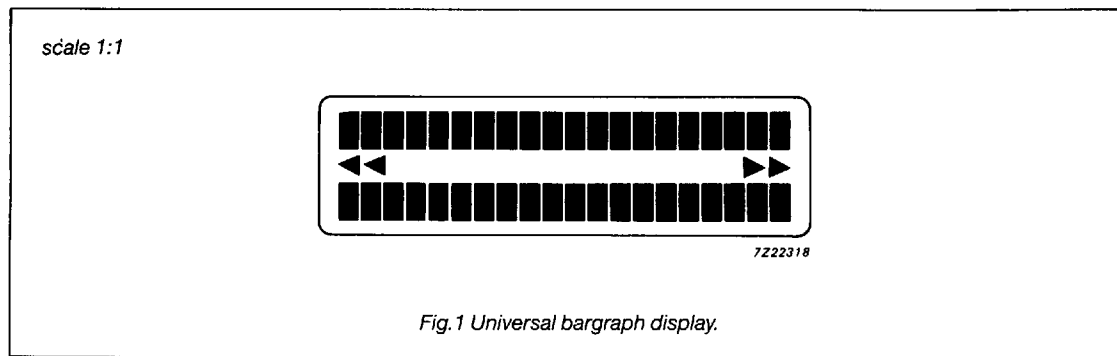
**DEVICE DESCRIPTION**

The LTD321 is a bargraph display. Typical applications include panelmeters and general purpose bargraphs.

**QUICK REFERENCE DATA**

Viewing area dimensions	64.8 x 17.8 mm
Overall glass dimensions	69.8 x 30.4 mm
Thickness	2.7 +/- 0.4 mm
Digit height	5.0 mm
Preferred viewing direction	6 o'clock
Driving method	direct drive

**DISPLAY MODE**



**TYPE DEPENDENT CHARACTERISTICS (1)**

TYPE	ILLUMINATION MODE	CONNECTION METHOD	RELIABILITY GRADE	FAMILY (2) CHARACTERISTICS	OPERATING VOLTAGE (V)
LTD321R-12	reflective	with fixed pins	commercial	TR0	3.5 - 6.5

Note: (1) drive method = direct drive  
 (2) see chapter "Family Characteristics" for complete specification



## Liquid crystal display

LTD321

## PIN DESCRIPTION

PIN NO.	SEGMENT ASSIGNED TO COMMON 1	PIN NO.	SEGMENT ASSIGNED TO COMMON 2
1	comm 1	26	n.c.
2	1	27	n.c.
3	2	28	x4
4	3	29	x3
5	4	30	40
6	5	31	39
7	6	32	38
8	7	33	37
9	8	34	36
10	9	35	35
11	10	36	34
12	11	37	33
13	12	38	32
14	13	39	31
15	14	40	30
16	15	41	29
17	16	42	28
18	17	43	27
19	18	44	26
20	19	45	25
21	20	46	24
22	x1	47	23
23	x2	48	22
24	n.c.	49	21
25	n.c.	50	comm 2

## RATINGS

Limiting values in accordance with Absolute Maximum System (IEC 134)

Maximum voltage between any two connections (see note)

 $V_{\max}$ 

15 V RMS

Note: maximum DC component = 0.1 V

TYPE	RELIABILITY TESTS		
	Damp/heat steady state $T_{\text{amb}}$ /R.H./duration	Low temperature storage $T_{\text{amb}}$ /duration	High temperature storage $T_{\text{amb}}$ /duration (dry)
LTD321R-12	+40 °C/90%/21 days	-25 °C/21 days	+70 °C/21 days