Philips Components

Data sheet	
status	Product specification
date of issue	July 1990

LTD351

T-41-38

Liquid Crystal Display

DEVICE DESCRIPTION

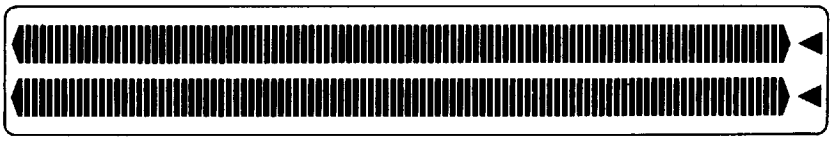
The LTD351 is a bargraph display. Typical applications include panelmeters and general purpose bargraph displays. For applications requiring a 9 o'clock viewing angle, the LCD can be used upside down.

QUICK REFERENCE DATA

Viewing area dimensions	109.0 x 16.0 mm
Overall glass dimensions	114.0 x 26.0 mm
Thickness	2.7 +/– 0.4 mm
Digit height	5.0 mm
Preferred viewing direction	3 o'clock
Driving method	MUX 1:2

DISPLAY MODE

scale 1:1



7Z22319

Fig.1 Universal bargraph display.

TYPE DEPENDENT CHARACTERISTICS (1)

TYPE	ILLUMINATION MODE	CONNECTION METHOD	RELIABILITY GRADE	FAMILY CHARACTERISTICS (2)	OPERATING VOLTAGE (V)
LTD351R–11	reflective	with fixed pins	commercial	TR1	typ. 2.6

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

Liquid crystal display

LTD351

MECHANICAL DATA

Dimensions in mm

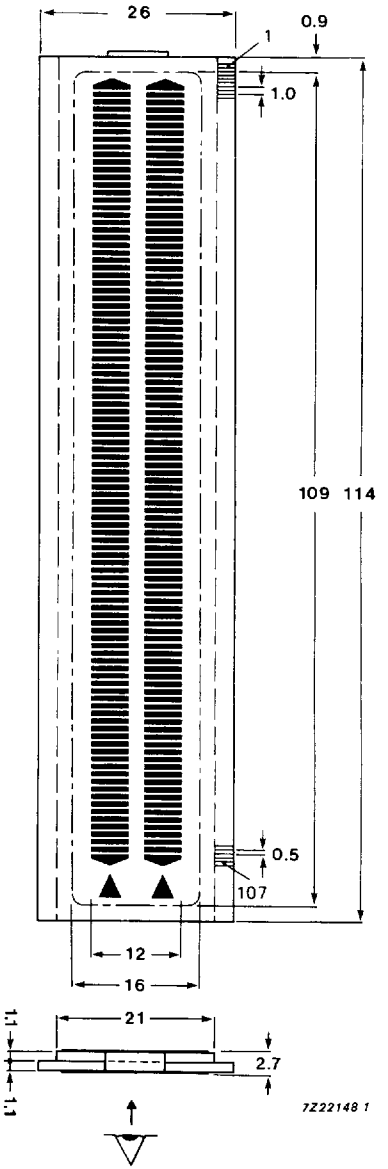


Fig.2 Display dimensions.

Liquid crystal display LTD351

PIN DESCRIPTION

PIN NO.	SEGMENT ASSIGNED TO COMMON 1
1	comm 1
2	n.c.
3	n.c.
4	x1
.	.
.	.
.	.
107	x104

PIN NO.	SEGMENT ASSIGNED TO COMMON 2
1	n.c.
2	comm 2
3	comm 2
4	y1
.	.
.	.
.	.
107	y104

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_{amb}/R.H./duration	Low temperature storage T_{amb}/duration	High temperature storage T_{amb}/duration (dry)
LTD351R–11	+40 °C/90%/21 days	–25 °C/21 days	+70 °C/21 days