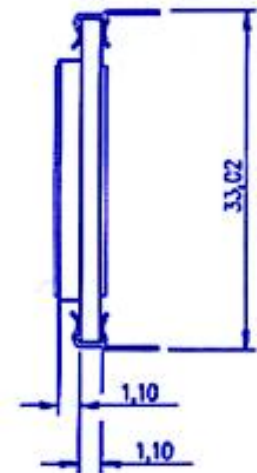


## DE-113



Driving-IC:  
INTERSIL ICL7106, TELEDYNE 7106

| SEG. | 3A | 3F | 3G | 2B | 2A | 2F | 2G | COL | 1B | 1A | 1F | 1G  | NC | NC | NC | NC  | NC | LOW<br>BAT | :  | BP |
|------|----|----|----|----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|------------|----|----|
| PIN# | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28  | 29 | 30 | 31 | 32  | 33 | 34 | 35 | 36  | 37 | 38         | 39 | 40 |
| SEG. | BP | -  | K  | NC | NC | NC | NC | DP1 | 1E | 1D | 1C | DP2 | 2E | 2D | 2C | DP3 | 3E | 3D         | 3C | 3B |
| PIN# | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8   | 9  | 10 | 11 | 12  | 13 | 14 | 15 | 16  | 17 | 18         | 19 | 20 |

[LCD - Specification](#)

[back](#)

## LCD - Specification

DISPLAY is specialized on LCD - Products. We manufacture:

Standard LCD's  
 Custom designed LCD's  
 LC - Modules (digital, alphanumeric, graphic)  
 LC - custom designed modules  
 upon request TN, HTN, STN, FSTN - technologies  
 Component for LCD's like backlight components (LED, EL panels), connectors,  
 elastometers (zebra connectors) etc.

## Electrical and physical properties of LCD'S

| At an ambient temperature<br>of 25°C                | Standard temperature |      |      | Extended temperature |      |      | Wide temperature |      |      | Unit   |
|-----------------------------------------------------|----------------------|------|------|----------------------|------|------|------------------|------|------|--------|
|                                                     | min.                 | typ. | max. | min.                 | typ. | max. | min.             | typ. | max. |        |
| Operating voltage                                   |                      | 3    |      |                      | 3    |      |                  | 5    |      | V      |
| Driving frequency                                   | 30                   | 32   | 100  | 30                   | 32   | 100  | 30               | 32   | 100  | Hz     |
| Current consumption                                 |                      | 1,0  | 2,0  |                      | 1,0  | 2,0  |                  | 1,0  | 2,0  | µA/cm² |
| DC-voltage allowance                                |                      |      | 50   |                      |      | 50   |                  |      | 50   | mV     |
| Response time (t <sub>on</sub> + t <sub>off</sub> ) |                      | 440  |      |                      | 440  |      |                  |      | 450  | ms     |
| Operating temperature                               | -10                  |      | 60   | -20                  |      | 70   | -40              |      | 90   | °C     |
| Storage temperature                                 | -20                  |      | 65   | -40                  |      | 90   | -40              |      | 90   | °C     |
| Lifetime                                            | 100 000              |      |      |                      |      |      |                  |      |      | h      |

## ORDERING INFORMATION

**model**

reflective = R

transflective = T

transmissive = M

standard polarizer = S

highstable polarizer = U

DE -       -       /

Pinlength (mm)

0 = fixed pins

1 = for elastomer (zebra)

1 = standard temperature

2 = extended temperature

3 = wide temperature

**Example:**

DE-113-RS-10/7,5

LCD 3½ digits

Digit height 12.7 mm

Reflective

Standard polarizer

Standard temperature

Fixed pins

Pinlength 7.5 mm

[back](#)