



D 610 P

**Bargraph Display**  
5 Red LED with driver circuit

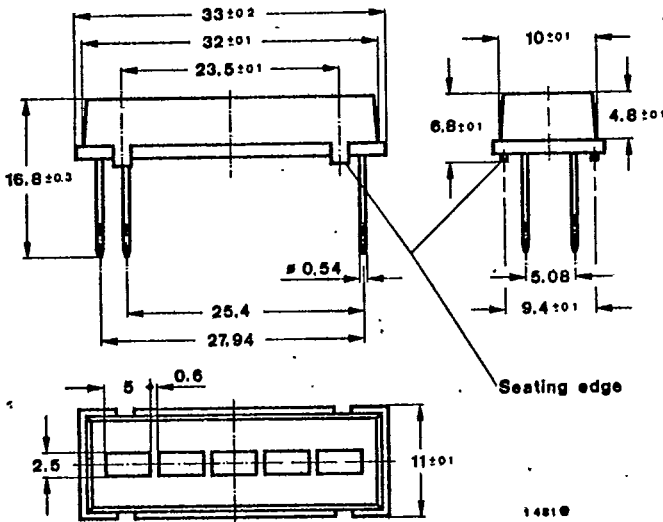
Application: Analogue voltage indicator as bargraph display

Features:

- Built-in IC
- No external components necessary
- 5 linear display stages-soft transition
- High input resistance
- Wide viewing angle
- Very low cross talk

F-19-36  
T-41-37

Dimensions in mm



Filter cap: red  
Angle of half intensity  
 $\varphi = \pm 30^\circ$   
Weight max. 4 g

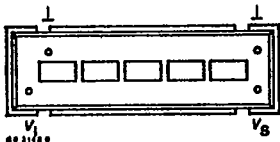


Fig. 1 Pin connections

T1.2.206/0389 E

2298 C-11

297

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F-19-36  
T-41-37

Absolute maximum ratings

Supply voltage	$V_S$	15	V
Supply current	$I_S$	26	mA
Input voltage	$V_I$	5	V
Input current	$I_I$	0.5	mA
Total power dissipation $T_{amb} = 40^\circ\text{C}$	$P_{tot}$	400	mW
Junction temperature			
IC	$T_J$	150	$^\circ\text{C}$
LED	$T_{J,LED}$	100	$^\circ\text{C}$
Ambient temperature range	$T_{amb}$	-10...+50	$^\circ\text{C}$
Storage temperature range	$T_{stg}$	-25...+85	$^\circ\text{C}$
Soldering temperature range 2 mm from case, $t = 2$ s	$T_{sd}$	260	$^\circ\text{C}$

Maximum thermal resistance

Junction ambient	$R_{thJA}$	130	K/W
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Optical and electrical characteristics

$V_S = 12$  V,  $T_{amb} = 25^\circ\text{C}$

Supply voltage range	$V_S$	12	15	V
Total supply current	$I_S$	15	26	mA
Input current	$-I_I$	5		nA
Input voltages of soft transitions	$V_I$	200		mV
	$V_I$	380		mV
	$V_I$	560		mV
	$V_I$	740		mV
	$V_I$	920		mV
Luminous Intensity per segment	$I_v$	150		$\mu\text{cd}$
Matching factor	$m$	0.5		
Dominant wavelength	$\lambda_D$	662		nm

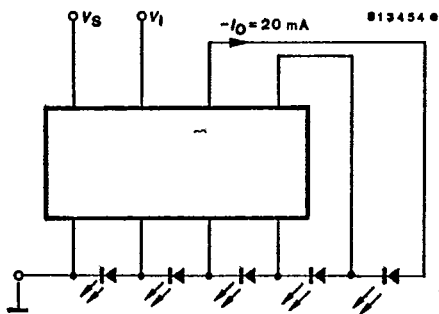


Fig. 2 Diagram