

# LA-401DN series

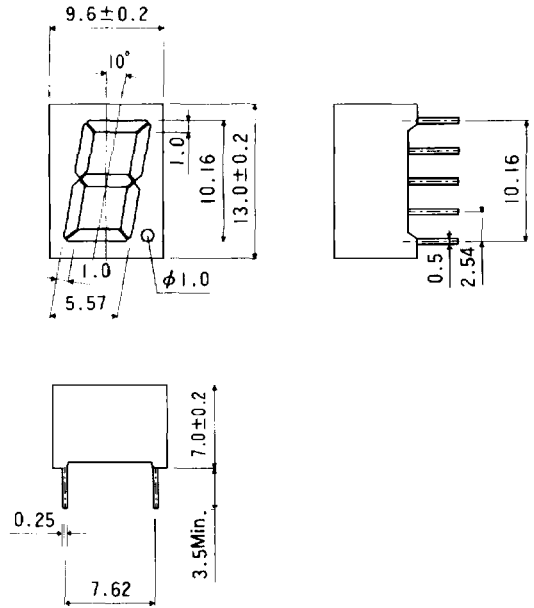
# Numeric display, single digit, single color, 7 segment

The LA-401 DN series are single digit numeric display light-emitting diodes that can be used in bright locations.

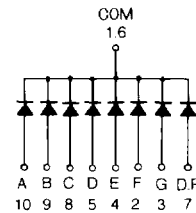
### Features

- outer dimensions of package: 9.6 × 13 × 7 mm
- character height: 10.16 mm (0.4 in.)
- available in red, orange, yellow, and green
- package has black-painted surface, segments are tinted
- anode and cathode-common types available for each color
- high luminous intensity and clear display
- simple pin arrangement

### Dimensions (Units : mm)

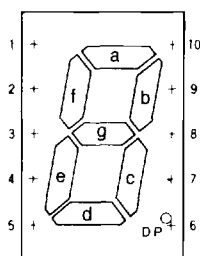


### Example (common cathode)



### Selection guide

Part no.	LA-401VD	LA-401DD	LA-401YD	LA-401MD
Color & wavelength	Red, 650 nm	Orange, 610 nm	Yellow, 585 nm	Green, 563nm
Common pin	Anode	Anode	Anode	Anode
Availability	standard	semi-standard	semi-standard	standard
Part no.	LA-401VN	LA-401DN	LA-401YN	LA-401MN
Color & wavelength	Red, 650 nm	Orange, 610 nm	Yellow, 585 nm	Green, 563nm
Common pin	Cathode	Cathode	Cathode	Cathode
Availability	standard	semi-standard	semi-standard	standard

**Figure 1 Pin connections**


Pin no.	Function
1	Common
2	Segment "f"
3	Segment "g"
4	Segment "e"
5	Segment "d"
6	Common
7	Decimal point
8	Segment "c"
9	Segment "b"
10	Segment "a"

**Absolute maximum ratings ( $T_a = 25^\circ\text{C}$ )**

Parameter	Symbol	Limits				Unit	Conditions
		Red	Orange	Yellow	Green		
Power dissipation	$P_d$	320	320	320	480	mW	
Power dissipation per segment	$P_d/\text{seg}$	40	40	40	60	mW	
Forward current	$I_F$	15	15	15	20	mA	
Peak forward current	$I_{FP}$	60				mA	Pulse width 1 ms, duty 20%
Reverse voltage	$V_R$	3				V	
Operating temperature	$T_{opr}$	-25 ~ +75				$^\circ\text{C}$	
Storage temperature	$T_{stg}$	-30 ~ +85				$^\circ\text{C}$	

**Electro-optical characteristics ( $T_a = 25^\circ\text{C}$ )**

Parameter	Symbol	Red			Orange			Yellow			Green			Unit	Conditions
		Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max		
Forward voltage	$V_F$		2.0	2.8		2.0	2.8		2.1	2.8		2.1	2.8	V	$I_F = 10\text{ mA}$
Reverse current	$I_R$			100			100			100			100	$\mu\text{A}$	$V_R = 3\text{ V}$
Luminous intensity	$I_V$	3.6	10		3.6	10		3.6	10		5.6	16		mcd	$I_F = 10\text{ mA}$
Peak wavelength	$\lambda_p$		650			610			585			563		nm	$I_F = 10\text{ mA}$
Spectral half-width	$\Delta\lambda$		40			40			40			40		nm	$I_F = 10\text{ mA}$