High efficiency, single-digit numeric displays

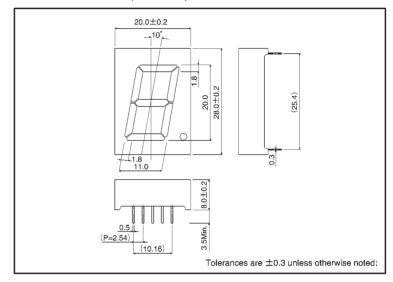
LA-801 FP Series

The LA-801 FP series are LED numeric displays designed to be used in bright locations. The height of the character is 20 mm, and four colors are available: red, orange, yellow and green. These displays have been designed for use as large numeric displays in game machines and other applications.

Features

- 1) Height of character: 20 mm.
- 2) External dimensions : $20 \times 28 \times 8$ mm
- Common anode and common cathode configurations are available for each color.
- The package surface is painted black and the segments are colored the display color.
- 5) High luminosity, clear display.
- Convenient pin layout for designing the printed circuit board pattern.

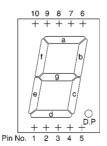
External dimensions (Units: mm)



Selection guide

Emitting color Common	Red	Orange	Yellow	Green		
Anode	LA-801VF	LA-801DF	LA-801YF	LA-801MF		
Cathode	LA-801VP	LA-801DP	LA-801YP	LA-801MP		

Pin assignments

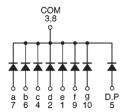


Pin No.	Function
1	Segment "e"
2	Segment "d"
3	Common
4	Segment "c"
5	D.P
6	Segment "b"
7	Segment "a"
8	Common
9	Segment "f"
10	Segment "g"



LED displays LA-801 FP Series

●Internal circuit schematic (example of common cathode)



●Absolute maximum ratings (Ta = 25°C)

Parameter	Cymbol	Red	Orange	Yellow	Green	Unit	
	Symbol	LA-801VF / VP	01VF / VP LA-801DF / DP LA-801YF / YP LA-801MF / N		LA-801MF / MP		
Power dissipation	Pp	480	480	480	480	mW	
Power dissipation	P⊳/ seg	60	60	60	60	mW	
Forward current	lf	20	20	20	20	mA	
Peak forward current	IFP	60*	60*	60*	60*	mA	
Reverse voltage	VR	3	3	3	3	V	
Operating temperature	Topr		°C				
Storage temperature	Tstg		°C				

^{*} Pulse width 1ms duty 1 / 5

●Electrical and optical characteristics (Ta = 25°C)

Parameter Symbol	Symbol	Conditions	Red		Orange		Yellow		Green			Unit			
	Conditions	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Мах.	Offic	
Forward voltage	VF	I=10mA	_	2.0	2.8	_	2.0	2.8	_	2.1	2.8	_	2.1	2.8	V
Reverse current	lR	V _R =3V	_	_	100	_	_	100	_	_	100	_	_	100	μΑ
Peak wavelength	λР	I=10mA	_	650	_	_	610	_	_	585	_	_	563	_	nm
Spectral line half width	Δλ	I==10mA	_	40	_	_	40	_	_	40	_	_	40	_	nm

ONot designed for radiation resistance.

Luminous intensity

Color	λР	Туре	Min.	Тур.	Max.	Unit
Red	650	LA-801VF	3.6	10	_	mcd
	650	LA-801VP	3.0			
Orange	610	LA-801DF	3.6	10	-	mcd
		LA-801DP	3.6			
Yellow	585	LA-801YF	2.2	6.3	_	
		LA-801YP	2.2			mcd
Green	563	LA-801MF	0.6	10	_	
		LA-801MP	3.6			mcd

Note: Measured at IF = 10mA