LED displays

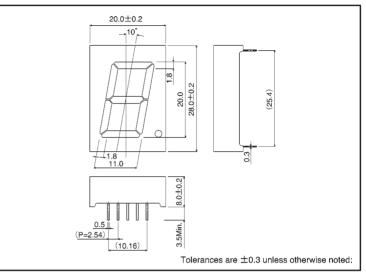
High efficiency, single-digit numeric displays LA-801 FP Series

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.
- 6) Convenient pin layout for designing the printed circuit board pattern.

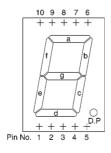




Selection guide

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

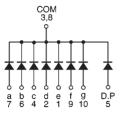
Pin assignments



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"



Internal circuit schematic (example of common cathode)



•Absolute maximum ratings (Ta = 25° C)

Parameter	Symbol	Red	Orange	Yellow	Green	Unit
	Symbol	LA-801VF / VP	LA-801DF / DP	LA-801YF / YP	LA-801MF / MP	Unit
Power dissipation	PD	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	Sumbol	Conditions	Red		Orange		Yellow			Green			Unit		
	Conditions	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Unit	
Forward voltage	VF	I⊧=10mA	-	2.0	2.8	-	2.0	2.8	_	2.1	2.8	-	2.1	2.8	V
Reverse current	IR	V _R =3V	-	—	100	—	-	100	_	-	100	_	-	100	μA
Peak wavelength	λp	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) -	Tune	Min.	Tun	Max.	Unit
Color	λP	Туре	IVIIII.	Тур.	IVIAX.	Unit
Red	650	LA-801VF	3.6	10	_	mcd
neu		LA-801VP	3.0			mea
Orange	610	LA-801DF	3.6	10	_	mcd
		LA-801DP	3.0			
Yellow	585	LA-801YF	2.2	6.3	_	mod
		LA-801YP	2.2	0.3		mcd
Green	563	LA-801MF	3.6	10	_	mod
		LA-801MP	3.0			mcd

Note: Measured at IF = 10mA

