LED displays

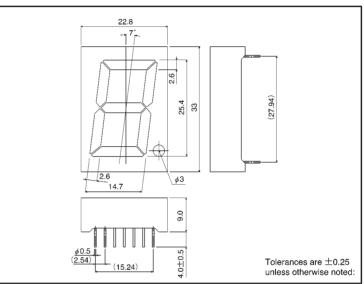
High efficiency, single-digit numerical displays LA-121 AK Series

The LA-121 AK series are two-color, high luminance LED numerical displays designed to allow use even in bright locations. Red, green and orange displays are possible.

Features

- 1) Height of character : 25.4 mm.
- 2) Dimensions : 22.8 \times 33 \times 9 mm.
- A common anode configuration and a common cathode configuration are available.
- The package surface is painted black and the segments are milky white.
- 5) High luminance, clear display.
- 6) Red, green and orange displays are possible.

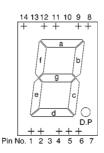
External dimensions (Units: mm)



Selection guide

Emitting color Common	Red / Green
Anode	LA-121MLA
Cathode	LA-121MLK

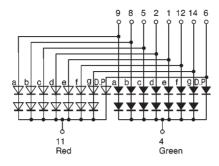
Pin assignments



Pin No.	Function	Pin No.	Function
1	Segment "e"	8	Segment "b"
2	Segment "d"	9	Segment "a"
3	_	10	
4	Green Common	11	Red Common
5	Segment "c"	12	Segment "f"
6	D.P	13	_
7	—	14	Segment "g"



Internal circuit schematic (example of common cathode)



•Absolute maximum ratings (Ta = 25° C)

Parameter	Symbol	Red	Green	Unit	
	Symbol	LA-121MLA / MLK	LA-121MLA / MLK	Unit	
Power dissipation	Po	900	750		
Power dissipation	Pp/seg	120 (60)	100 (50)		
Forward current	IF	30	20		
Peak forward current	IFP	80*	60*		
Reverse voltage	VR	8 (4)	8 (4)		
Operating temperature	Topr	-25~			
Storage temperature	Tstg	-25~			

* Pulse width 1ms duty 1 / 5

() is D.P value

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

Parameter	Symbol	Conditions	Red		Green			1.1	
			Min.	Тур.	Max.	Min.	Тур.	Max.	Unit
Forward voltage	VF	l⊧=20mA	_	3.5 (1.75)	4 (2)	_	4.4 (2.2)	5 (2.5)	v
Reverse current	IR	V _R =3V	_	-	100	_	-	100	μA
Peak wavelength	λp	I⊧=20mA	—	660	_	_	563	-	nm
Spectral line half width	Δλ	I⊧=20mA	_	25	_	_	40	-	nm

ONot designed for radiation resistance.

() is D.P value

Luminous intensity

Color	λp	Туре	Min.	Тур.	Max.	Unit
Red 660	660	LA-121MLA	36	100	_	mcd
	000	LA-121MLK	30			
Green 563	LA-121MLA	00	100	_	maad	
	563	LA-121MLK	36	100		mcd

Note: Measured at IF = 20mA