High efficiency, single-digit numerical displays

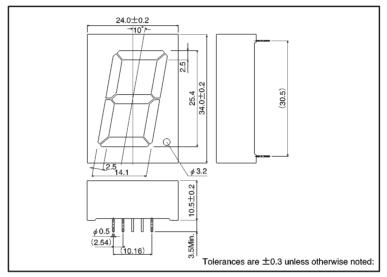
LA-101 AK Series

The LA-101 AK series are LED numerical displays designed to allow use even in bright locations. The height of the character is 25.4 mm, and four colors are available: red, orange, yellow, and green. These displays are designed for use in large numerical displays.

Features

- 1) Height of character: 25.4 mm.
- 2) Dimensions: $24 \times 34 \times 10.5$ mm.
- A common anode configuration and a common cathode configuration are available for each color.
- The package surface is painted black and the segments are colored the display color.
- 5) High luminance, clear display.

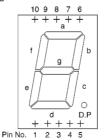
External dimensions (Units: mm)



Selection guide

Emitting color Common	Red	Orange	Yellow	Green	
Anode	LA-101VA	LA-101DA	LA-101YA	LA-101MA	
Cathode	LA-101VK	LA-101DK	LA-101YK	LA-101MK	

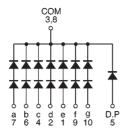
Pin assingment



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-101 AK Series

●Internal circuit schematic (example of common cathode)



●Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Red	Orange	Yellow	Green	Unit
	Symbol	LA-101VA / VK	A-101VA / VK LA-101DA / DK LA-101YA / YK LA-101MA / MK			Oill
Power dissipation	Po	640	640	640	640	mW
Power dissipation	P⊳/ seg	85 (45)	85 (45)	85 (45)	85 (45)	mW
Forward current	lF	15	15	15	20	mA
Peak forward current	IFP	60*	60*	60*	60*	mA
Reverse voltage	VR	6 (3)	6 (3)	6 (3)	6 (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	Conditions -	Red		Orange		Yellow		Green			Linit				
		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	l _R	V _R =3V	_	_	100	_	_	100	_	_	100	_	_	100	μА
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	λр	Туре	Min.	Тур.	Max.	Unit
Red	650	LA-101VA	3.6	10	_	mcd
	650	LA-101VK	3.0			
Orange	610	LA-101DA	5.6	16	_	mcd
		LA-101DK	5.6			
Yellow	585	LA-101YA	5.6	10	_	
		LA-101YK	5.0	16		mcd
Green	563	LA-101MA	E 6	16		mcd
		LA-101MK	5.6		_	med

Note: Measured at IF = 10mA

^() is D.P value

The forward voltage and reverse current values are the guaranteed values per element.