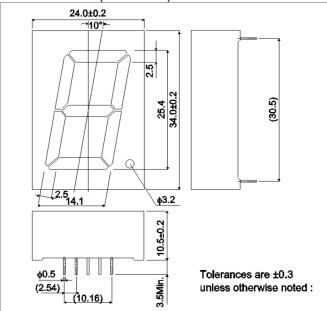
High efficiency, single-digit numeric displays

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

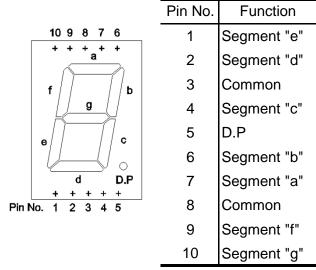
Features

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

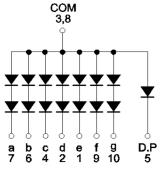
•Dimensions (Unit : mm)



Pin assignments



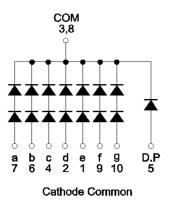
●Internal circuit schematic



Anode Common

Selection guide

Emitting color Common	Red	Green
Anode	LA-101VA	LA-101MA
Cathode	LA-101VK	LA-101MK



●Absolute maximum ratings (T_a = 25°C)

Parameter	Symbol	Red	Green	Unit	
	,	LA-101VA / VK	LA-101MA / MK		
Power dissipation	P _D	640	640	mW	
Power dissipation	P_D/seg	85 (45)	85 (45)	mW	
Forward current	I _F	15	20	mA	
Peak forward current	I_{FP}	60 *	60 *	mA	
Reverse voltage	V _R	5	5	V	
Operating temperature	T _{opr}	-25 to +75		°C	
Storage temperature	T _{stg}	-30 to +85			

* Pulse width 1ms, duty 1 / 5

() is D.P value

•Electrical and optical characteristics ($T_a = 25^{\circ}C$)

Parameter	Symbol	Conditions	Conditions Elements		Red		Green		Unit	
				Min.	Тур.	Max.	Min.	Тур.	Max.	
Forward voltage	V _F	I _F =10mA	2	-	4.0	5.6	-	4.2	5.6	V
Forward voltage	۷F	IF – TOITIA	1	-	2.0	2.8	-	2.1	2.8	
Reverse current	I _R	V _R =3V	-	-	-	100	-	-	100	μA
Peak wavelength	λ_{p}	I _F =10mA	-	-	650	-	-	563	-	nm
Spectral line halfwidth	Δλ	I _F =10mA	-	-	40	-	-	40	-	nm

 $\ensuremath{\textcircled{}}$ Not designed for radiation resistance.

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

•Luminous intensity

Parameter	λ_p	Туре	Min.	Тур.	Max.	Unit
Red	650	LA-101VA	3.6	10	-	mcd
Reu	030	LA-101VK	3.0			
Green	563	LA-101MA	5.6	16		mod
Green	003	LA-101MK	0.0	10	-	mcd

 \bigcirc Condition I_F=10mA

●Iv classification

Parameter	Туре	Item	lv classification	Unit
	LA-101VA LA-101VK	"L"	5.6 to 11	mcd
		" M "	9.0 to 18	mcd
Red		" N "	14 to 28	mcd
		"P"	22 to 45	mcd
		" Q "	36 to (71)	mcd
	LA-101MA LA-101MK	"L"	5.6 to 11	mcd
Green		" M "	9.0 to 18	mcd
		" N "	14 to 28	mcd
		" P "	22 to 45	mcd
		" Q "	36 to (71)	mcd

 \bigcirc Condition I_F=10mA

Fig.2 Relative Luminous Intensity

•Electrical and optical characteristics curves

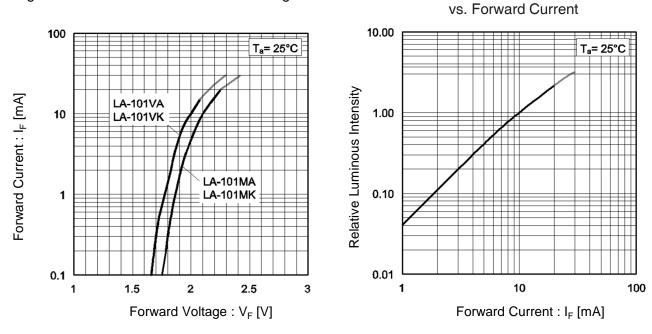
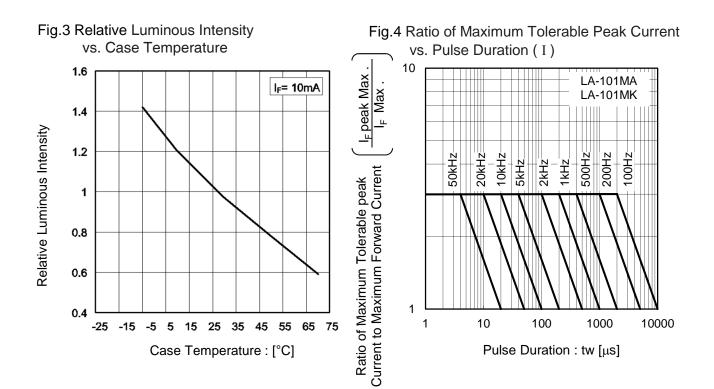
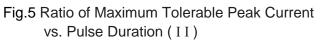


Fig.1 Forward Current vs. Forward Voltage



•Electrical and optical characteristics curves



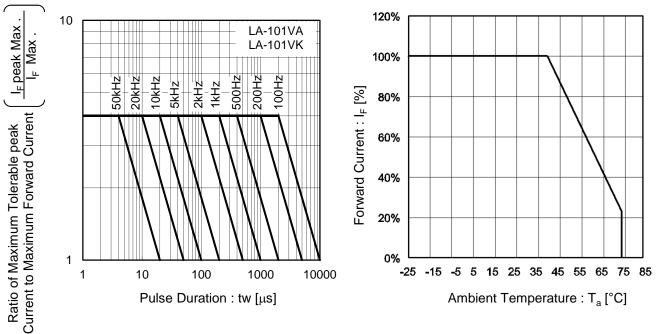


Fig.6 Derating

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