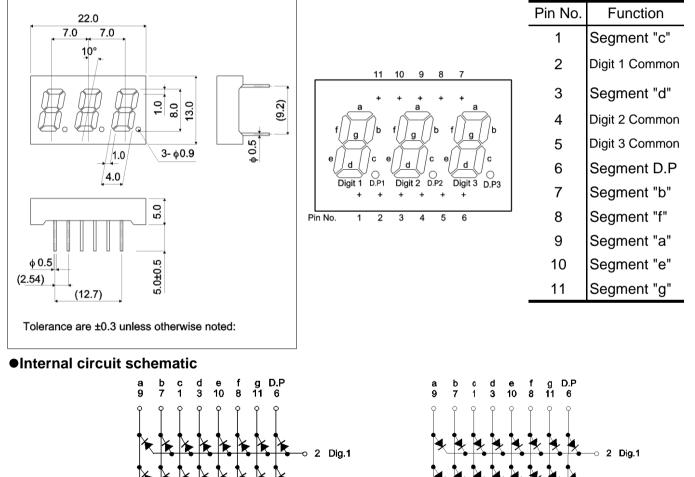
The LB-303AK series were designed to meet the need for multi-digit numeric displays. These LED numeric displays use GaAsP on GaP (red), GaP (green) for the emitting material (with the exception of green) and are housed in an epoxy resin package. They are three-digit displays with a character height of 8.0 mm.

### Features

- 1) Height of character : 8.0 mm
- 2) High efficiency in a compact package.
- 3) Common anode and common cathode configurations are available for red and green.
- 4) The package surface is painted black and the segments are colored the display color.

#### •Dimensions (Unit : mm)

•Pin assignments





#### Selection guide

Emitting color Common	Red	Green
Anode	LB-303VA	LB-303MA
Cathode	LB-303VK	LB-303MK

4 Dig.2

5 Dig.3

Cathode Common

# •Absolute maximum ratings ( $T_a = 25^{\circ}C$ )

Parameter	Symbol	Red	Green	Unit	
	·	LB-303VA / VK	LB-303MA / MK	<u> </u>	
Power dissipation	P <sub>D</sub>	960	1440	mW	
Power dissipation	$P_D / seg$	40	60	mW	
Forward current	I <sub>F</sub>	15	20	mA	
Peak forward current	I <sub>FP</sub>	60 *	60 *	mA	
Reverse voltage	V <sub>R</sub>	5	5	V	
Operating temperature	T <sub>opr</sub>	–25 t	°C		
Storage temperature	T <sub>stg</sub>	-30 to +85			

\* Pulse width 1ms, duty 1 / 5

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

Parameter	Symbol	Conditions	Red		Green			Unit	
			Min.	Тур.	Max.	Min.	Тур.	Max.	
Forward voltage	$V_{F}$	I <sub>F</sub> =10mA	-	2.0	2.8	-	2.1	2.8	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =3V	-	-	100	-	-	100	μA
Peak wavelength	$\lambda_p$	I <sub>F</sub> =10mA	-	650	-	-	563	-	nm
Spectral line halfwidth	Δλ	I <sub>F</sub> =10mA	-	40	-	-	40	-	nm

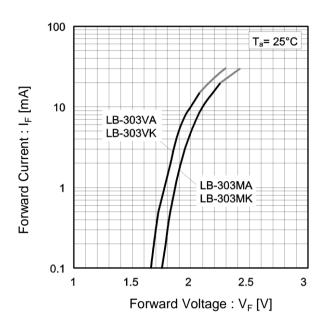
◎ Not designed for radiation resistance.

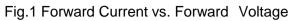
# Luminous intensity

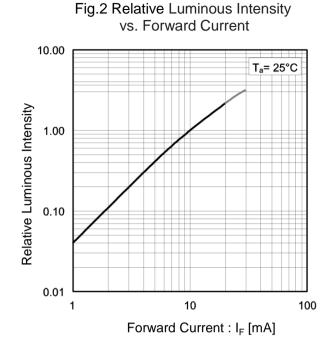
Parameter	$\lambda_p$	Туре	Min.	Тур.	Max.	Unit
Red	650	LB-303VA	1 /	4.0	-	mcd
		LB-303VK	1.4			
Green	563	LB-303MA	2.2	6.3		mad
Green	503	LB-303MK	2.2	0.3	-	mcd

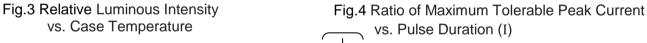
 $\bigcirc$  Condition I<sub>F</sub>=10mA

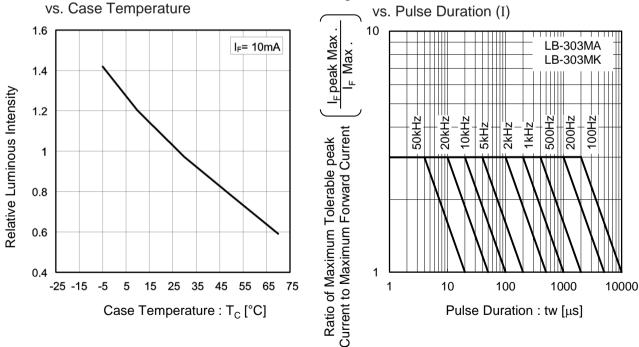
### •Electrical and optical characteristics curves



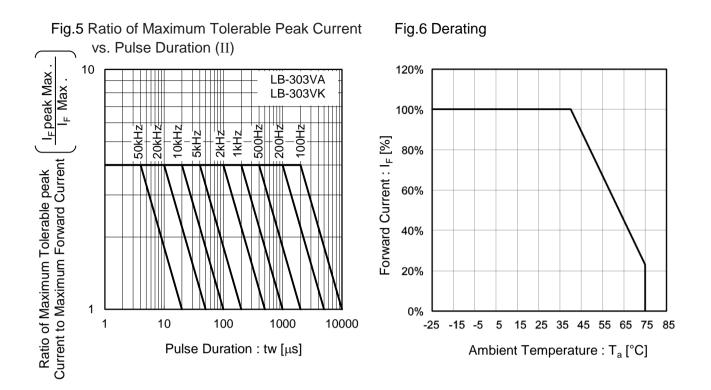








## •Electrical and optical characteristics curves





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