imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Three-digit LED numeric displays

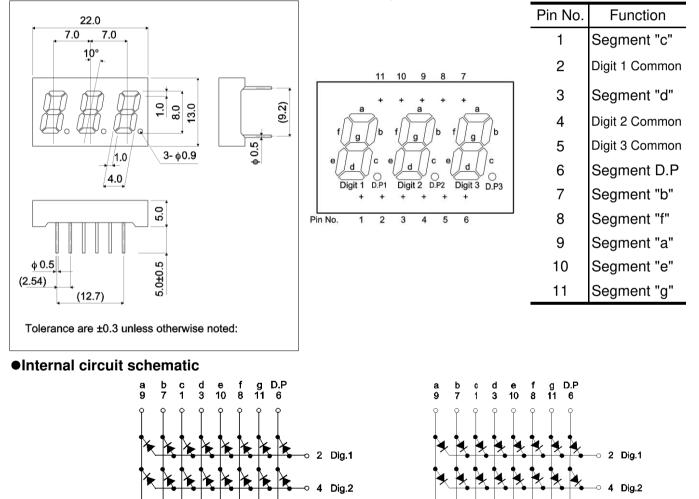
The LB-303AK series were designed to meet the need for multi-digit numeric displays. These LED numeric displays use GaAsP on GaP (red), GaP (green) for the emitting material (with the exception of green) and are housed in an epoxy resin package. They are three-digit displays with a character height of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



Anode Common

Selection guide

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

5 Dig.3

5 Dig.3

Cathode Common

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

Parameter	Symbol	Red	Green	Unit	
	•	LB-303VA / VK LB-303MA /			
Power dissipation	P _D	960	1440	mW	
Power dissipation	P_D / seg	40	60	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 t	°C		
Storage temperature	T _{stg}	-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 _F =10mA	-	2.0	2.8	-	2.1	2.8	V
Reverse current	I _R	V _R =3V	-	-	100	-	-	100	μA
Peak wavelength	λρ	I _F =10mA	-	650	-	-	563	-	nm
Spectral line halfwidth	Δλ	I _F =10mA	-	40	-	-	40	-	nm

◎ Not designed for radiation resistance.

Luminous intensity

Parameter	λ _p	Type Min. Typ.		Max.	Unit	
Red	650	LB-303VA	1.4	4.0	-	mcd
		LB-303VK				
Green	563	LB-303MA	0.0	6.0		mcd
	203	LB-303MK	2.2	6.3	-	

 \bigcirc Condition I_F=10mA

•Electrical and optical characteristics curves

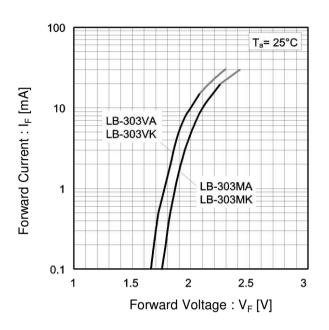
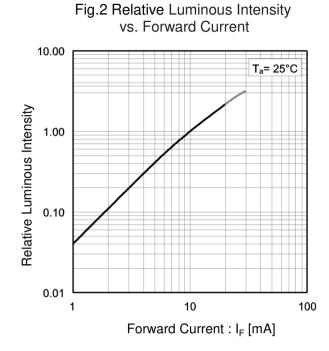
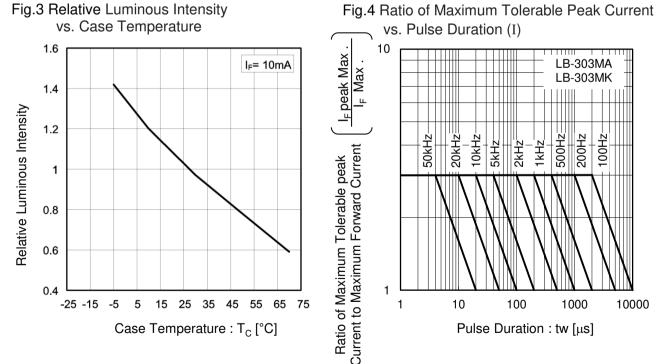
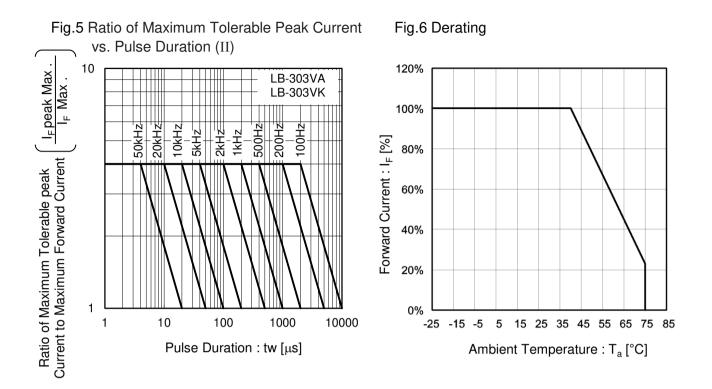


Fig.1 Forward Current vs. Forward Voltage





•Electrical and optical characteristics curves



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