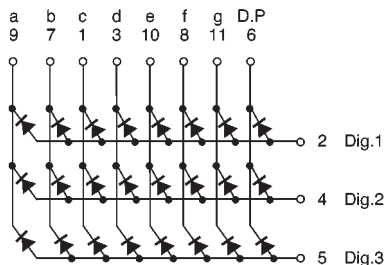




● Internal circuit schematic (example of common anode)



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

Parameter	Symbol	Red	Orange	Green	Unit
		LB-303VA / VK	LB-303DA / DK	LB-303MA / MK	
Power dissipation	$P_D$	960	960	1440	mW
Power dissipation	$P_D / \text{seg}$	40	40	60	mW
Forward current	$I_F$	15	15	20	mA
Peak forward current	$I_{FP}$	60*	60*	60*	mA
Reverse voltage	$V_R$	3	3	3	V
Operating temperature	$T_{opr}$	$-25 \sim +75$			$^\circ\text{C}$
Storage temperature	$T_{stg}$	$-30 \sim +85$			$^\circ\text{C}$

\* Pulse width 1ms duty 1 / 5

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

Parameter	Symbol	Conditions	Red			Orange			Green			Unit
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
Forward voltage	$V_F$	$I_F = 10\text{mA}$	—	2.0	2.8	—	2.0	2.8	—	2.1	2.8	V
Reverse current	$I_R$	$V_R = 3\text{V}$	—	—	100	—	—	100	—	—	100	$\mu\text{A}$
Peak wavelength	$\lambda_P$	$I_F = 10\text{mA}$	—	650	—	—	610	—	—	563	—	nm
Spectral line half width	$\Delta\lambda$	$I_F = 10\text{mA}$	—	40	—	—	40	—	—	40	—	nm

⊙ Not designed for radiation resistance.

● Luminous intensity

Color	$\lambda_P$	Type	Min.	Typ.	Max.	Unit
Red	650	LB-303VA	1.4	4.0	—	mcd
		LB-303VK				
Orange	610	LB-303DA	1.4	4.0	—	mcd
		LB-303DK				
Green	563	LB-303MA	2.2	6.3	—	mcd
		LB-303MK				

Note: Measured at  $I_F = 10\text{mA}$