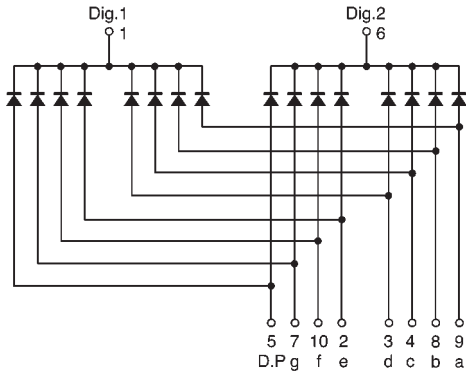


● Internal circuit schematic (example of common cathode)



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

Parameter	Symbol	Red	Orange	Yellow	Green	Unit
		LB-202VB / VL	LB-202DB / DL	LB-202YB / YL	LB-202MB / ML	
Power dissipation	P_D	640	640	640	640	mW
Power dissipation	P_D / seg	40	40	40	40	mW
Forward current	I_F	15	15	15	15	mA
Peak forward current	I_{FP}	60*	60*	60*	60*	mA
Reverse voltage	V_R	3	3	3	3	V
Operating temperature	T_{opr}	-25~+75				$^\circ\text{C}$
Storage temperature	T_{stg}	-30~+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			Yellow			Green			Unit
			Min.	Typ.	Max.	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	—	2.1	2.8	V
Reverse current	I_R	$V_R=3\text{V}$	—	—	100	—	—	100	—	—	100	—	—	100	μA
Peak wavelength	λ_P	$I_F=10\text{mA}$	—	650	—	—	610	—	—	585	—	—	563	—	nm
Spectral line half width	$\Delta\lambda$	$I_F=10\text{mA}$	—	40	—	—	40	—	—	40	—	—	40	—	nm

Ⓞ Not designed for radiation resistance.

● Luminous intensity

Color	λ_p	Type	Min.	Typ.	Max.	Unit
Red	650	LB-202VB	2.2	6.3	—	mcd
		LB-202VL				
Orange	610	LB-202DB	2.2	6.3	—	mcd
		LB-202DL				
Yellow	585	LB-202YB	2.2	6.3	—	mcd
		LB-202YL				
Green	563	LB-202MB	2.2	6.3	—	mcd
		LB-202ML				

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