



Specification For Approval

Customer: _____

Description: **LED-LAMP**

Part number: **RL-LB109 series**

Date: **2007-12-3**

Approved By:

Prepared By:

Approval	Check	Design	Sales
		yingzi	

EXCEED PERSEVERANCE ELECTRONICS IND CO., LTD

www.exceedledcn.com



EXCEED Light-emitting diode



RL-LB109 series

Absolute Maximum Rating

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I_F	40	mA
Peak Forward Current*	I_{FP}	200	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	0.48	W
Electrostatic discharge	E_{SD}	400	V
Operation Temperature	T_{opr}	-25~+80	°C
Storage Temperature	T_{stg}	-40~+80	°C
Lead Soldering Temperature*	T_{sol}	Max. 230°C for 5sec Max.	

* I_{FP} Conditions: Pulse Width ≤ 10 msec duty $\leq 1/10$

* T_{sol} Conditions: 3mm from the base of the epoxy bulb

Typical Optical/ Electrical Characteristics

Part Number	Material	W/L (nm)		Color	Lens Type	I_F (mA)	V_f (V)	I_v (mcd)	
		Min	Max					Min	Max
RL-LBW109URC-3P-12	AlGaInP/GaAs	625	635	Red	Water clear	40	12	2000	3000
RL-LBW109HBC-3P-12	InGaN	470	475	Blue	Water clear	40	12	1800	2500
RL-LBW109HWC-3P-12	InGaN	\	\	White	Water clear	40	12	2800	3500
RL-LBW109HGC-3P-12	InGaN	520	525	Green	Water clear	40	12	2300	3000
RL-LBW109HYC-3P-12	InGaAlP/GaAs	585	590	Yellow	Water clear	40	12	2000	3000

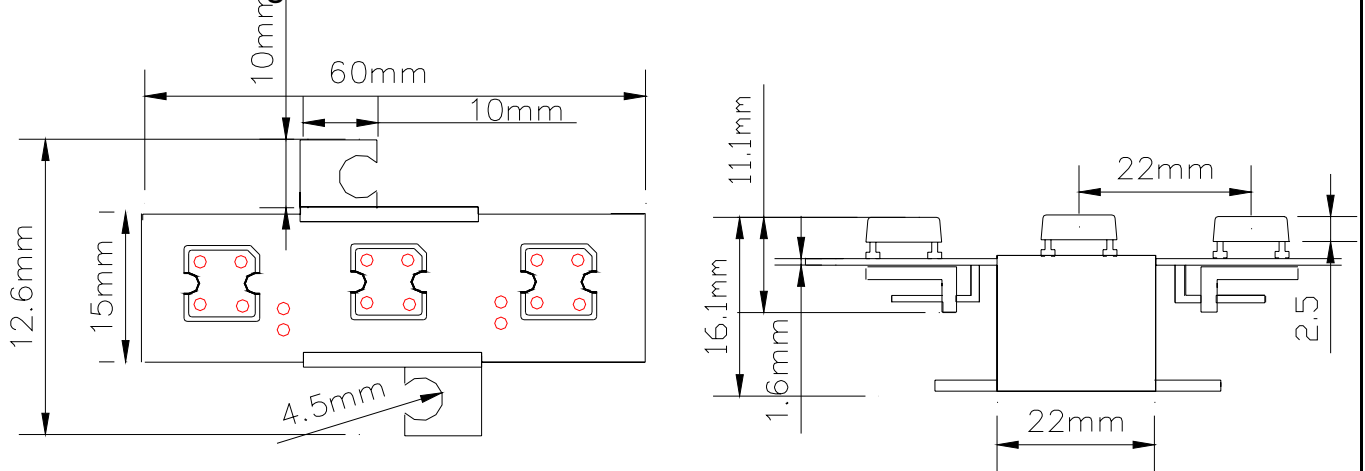
Notes:

1. Absolute maximum ratings $T_a=25^\circ\text{C}$.
2. Tolerance of measurement of forward voltage $\pm 0.1\text{V}$.
3. Tolerance of measurement of peak Wavelength $\pm 2.0\text{nm}$.
4. Tolerance of measurement of luminous intensity $\pm 15\%$.



RL-LB109 series

■ Package Dimensions And Materials



Notes:

1. All dimension units are millimeters.
2. All dimension tolerance is $\pm 0.2\text{mm}$ unless otherwise noted.
3. An epoxy meniscus may extend about 1.5mm down the leads.

Burr around bottom of epoxy may be 0.5mm max..