

Round Type, BI-COLOR LED lamp

BL-L315

Features:

- Ø 3.0mm Round Type BI-COLOR LED Lamps, with 3 leads
- Ø Ultra brightness.
- Ø Choice of various viewing angles.
- Ø Diffused, Transparent and Water clear lens are available.
- Ø IC compatible /Low current capability.
- Ø RoHs Compliance



Electrical-optical characteristics: (Ta=25°C) (Test Condition: IF=20mA)

Part Number	Chip			Lens Type	Forward Voltage(VF) Unit:V		Luminous Intensity (Iv) Unit:mcd		Viewing Angle 2θ/2(deg)
	Emitted Color	Material	λp 5 (nm)		Typ	Max	Min.	Typ	
					Water Diff.				
BL-L315EGW	Orange	GaAsP/GaP	635	Water Diff.	2.10	2.50	5	15	60
	Green	GaP/GaP	570		2.20	2.50	3	10	
BL-L315YGW	Yellow	GaAsP/GaP	585		2.10	2.50	3	10	
	Green	GaP/GaP	570		2.20	2.50	3	10	
BL-L315UEUGW	Ultra Yellow	AlGaInP	630		2.10	2.50	90	180	
	Ultra Green	AlGaInP	574		2.20	2.50	70	120	

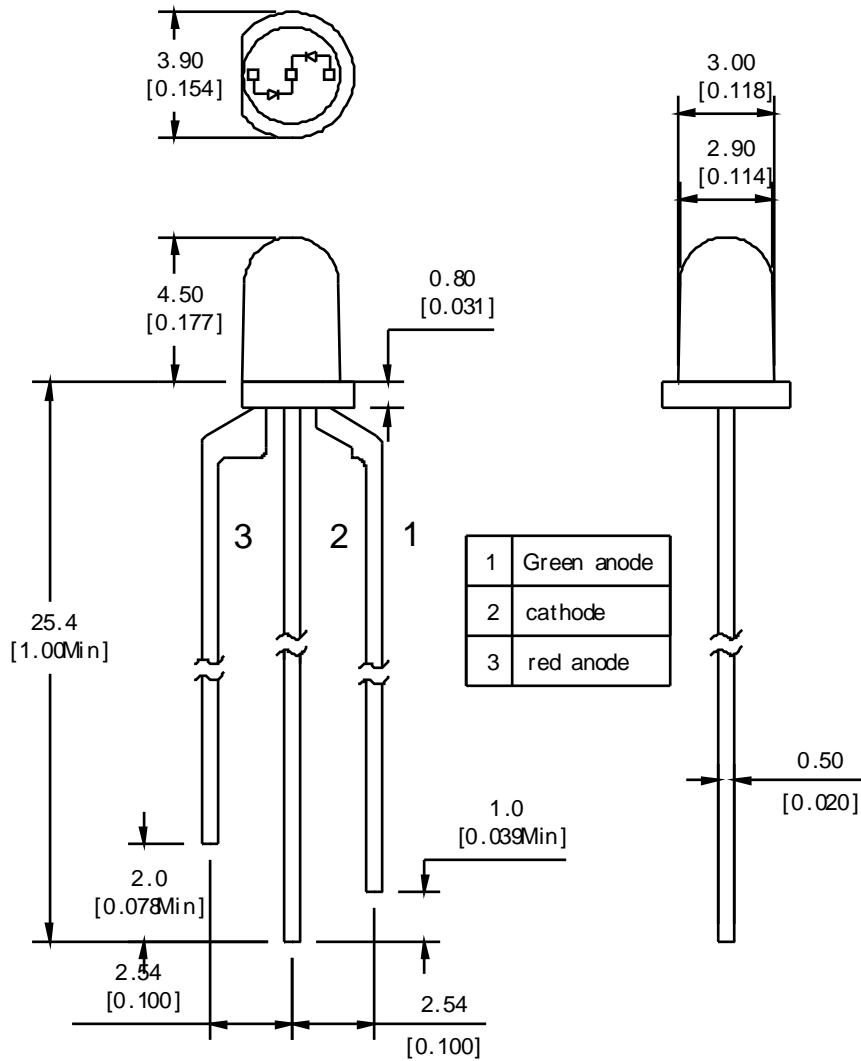
Absolute maximum ratings (Ta=25°C)

Parameter	E	UE	Y	G	UG	Unt
Forward Current I _F	25	30	25	30	30	mA
Power Dissipation P _d	60	65	60	65	75	mW
Reverse Voltage V _R	5	5	5	5	5	V
Peak Forward Current I _{PF} (Duty 1/10 @1KHZ)	150	150	150	150	150	mA
Operation Temperature T _{OPR}	-40 to +80					°C
Storage Temperature T _{STG}	-40 to +85					°C
Lead Soldering Temperature T _{SOL}	Max.260±5°C for 3 sec Max. (1.6mm from the base of the epoxy bulb)					°C

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Package configuration & Internal circuit diagram



Notes:

1. All dimensions are in millimeters (inches)
2. Tolerance is $\pm 0.25(0.01)$ unless otherwise noted.
3. Specifications are subject to change without notice.

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Typical electrical-optical characteristics curves:



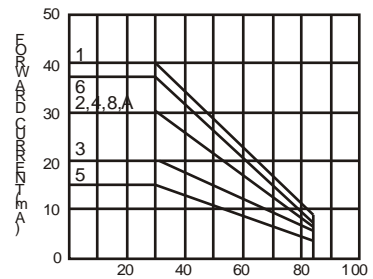
- (1) - GaAsP/GaAs 655nm/Red
- (2) - GaP 570nm/Yellow Green
- (3) - GaAsP/GaP 585nm/Yellow
- (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red
- (5) - GaP 700nm/Bright Red
- (6) - GaAlAs/GaAs 660nm/Super Red
- (8) - GaAsP/GaP 610nm/Super Red
- (9) - GaAlAs 880nm
- (10) - GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) - GaN/SiC 430nm/Blue
- (B) - InGaN/SiC 470nm/Blue
- (C) - InGaN/SiC 505nm/Ultra Green
- (D) - InGaAlSiC 525nm/Ultra Green



FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



AMBIENT TEMPERATURE Ta()
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE Ta()



tp-PULSE DURATION µs
(1,2,3,4,6,8,B,D,J,K)



tp-PULSE DURATION µs
(5)

NOTE:25 free air temperature unless otherwise specified

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Packing and weighting

