

Round Type LED lamp

BL-L314xx-NF60

Features:

- Ø 3mm Round Type LED Lamps, no flange, and wide view angle
- 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 (lv) Unit:mcd		Viewing Angle 2θ/2(deg)
	Emitted Color	Material	λP (nm)		Typ	Max	Min.	Typ.	
					BL-L314UEC-NF60	Ultra Orange	AlGaInP	630	
BL-L314UYC-NF60	Ultra Yellow	AlGaInP	590	2.10	2.50	500	1200		
BL-L314UGC-NF60	Ultra Green	AlGaInP	574	2.20	2.50	200	500		
BL-L314PGC-NF60	Ultra Pure Green	InGaN	525	3.80	4.50	1500	2500		
BL-L314UBC-NF60	Ultra Blue	InGaN	470	2.70	4.20	800	1500		
BL-L314UWC-NF60	Ultra White	InGaN	/	2.70	4.20	800	1500		

Absolute maximum ratings (Ta=25°C)

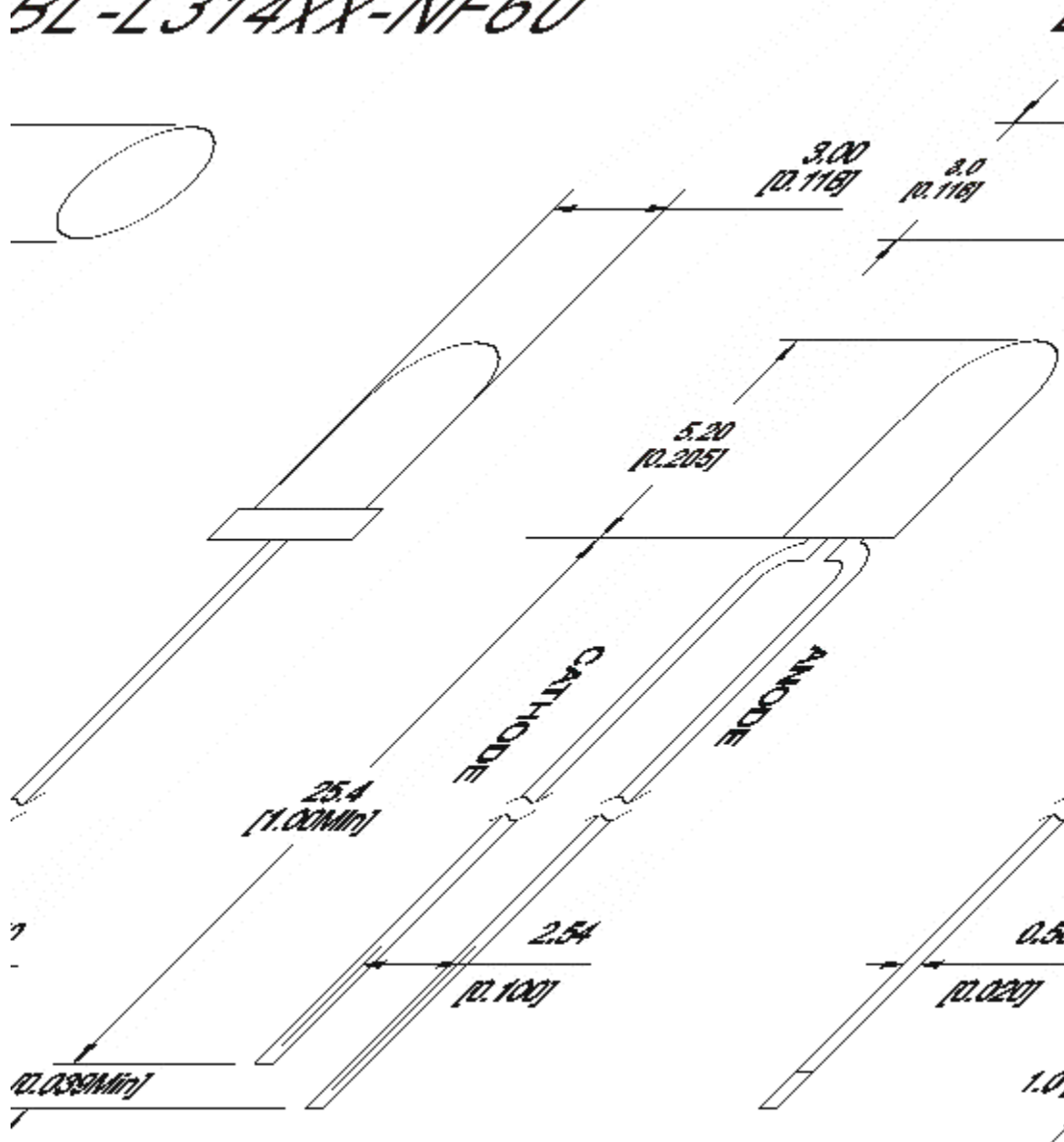
Parameter	UE	UY	UG	PG	UB	W	Unit
Forward Current I _F	30	30	30	30	30	30	mA
Power Dissipation P _d	65	65	75	110	120	120	mW
Reverse Voltage V _R	5	5	5	5	5	5	V
Peak Forward Current I _{PF} (Duty 1/10 @1KHZ)	150	150	150	150	100	100	mA
Operation Temperature T _{OPR}	-40 to +80						°C
Storage Temperature T _{STG}	-40 to +85						°C
Lead Soldering Temperature TSOL	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

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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



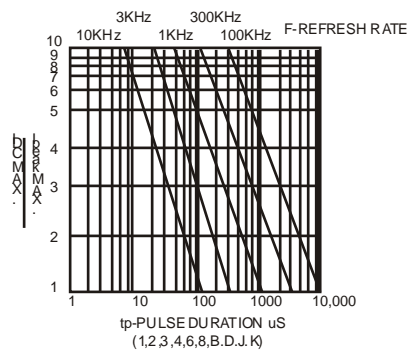
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



AMBIENT TEMPERATURE Ta (°C)
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE Ta (°C)



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



(5)

NOTE: 25 free air temperature unless otherwise specified

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Packing and weighting

