

## Round Type LED lamp

**BL-L101xxW**

### Features:

- 10mm Round LED Lamps
- Ultra brightness.
- Choice of various viewing angles.
- Diffused, Transparent and Water clear lens
- IC compatible /Low current capability.
- 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 2θ1/2 (deg)
	Emitted Color	Material	λ <sub>P</sub> (nm)		Typ	Max	Min.	Typ.	
					BL-L101SRW	Hi Red	AlGaAs,SH	660	
BL-L101LRW	Super Red	AlGaAs,DH	660	1.85	2.20	150	350		
BL-L101URW	Ultra Red	AlGaAs,DDH	660	1.95	2.20	300	500		
BL-L101UEW	Ultra Orange	AlGaInP	630	2.10	2.50	500	900		
BL-L101UYW	Ultra Yellow	AlGaInP	590	2.10	2.50	300	700		
BL-L101UGW	Ultra Green	AlGaInP	574	2.20	2.50	100	400		
BL-L101PGW	Ultra Pure Green	InGaN	525	3.80	4.50	500	2500		
BL-L101BGW	Ultra Bluish Green	InGaN	505	3.80	4.50	300	2000		
BL-L101UBW	Ultra Blue	InGaN	470	2.70	4.20	450	1000		
BL-L101VW	UV	InGaN	405	3.80	4.50	50	70		
BL-L101UWW	Ultra White	InGaN	/	2.70	4.20	2000	5000		
BL-L101UW2W	Warm White	InGaN	/	2.70	4.20	1000	3000		

### ■ Absolute maximum ratings (Ta=25°C)

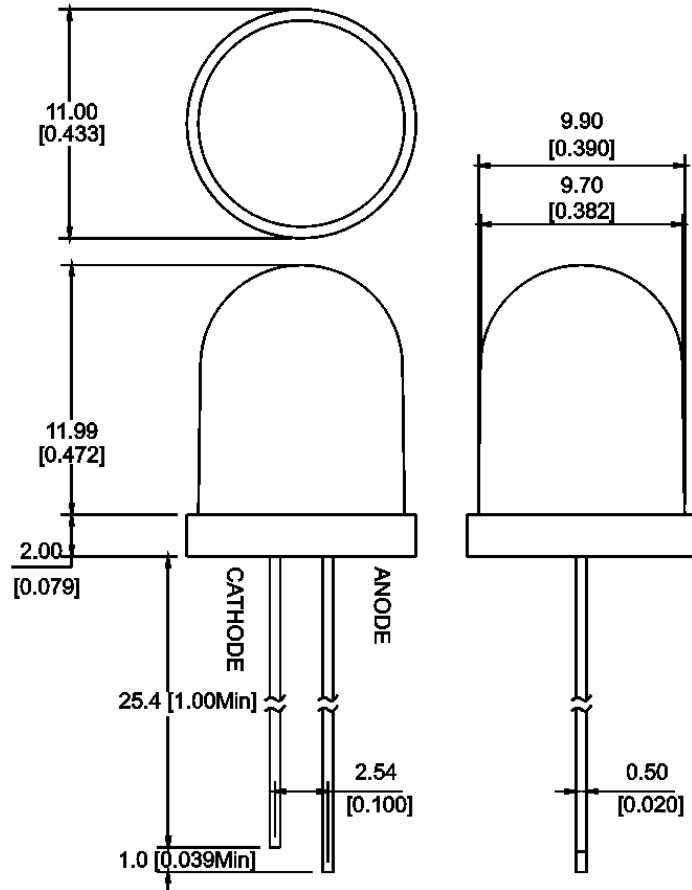
Parameter	SR	LR	UR	UE	UY	UG	PG	BG	B	UB	UV	W	Unit
Forward Current I <sub>F</sub>	25	25	25	30	30	30	30	30	30	30	30	30	mA
Power Dissipation P <sub>d</sub>	60	60	60	65	65	75	110	110	120	120	120	120	mW
Reverse Voltage V <sub>R</sub>	5	5	5	5	5	5	5	5	5	5	5	5	V
Peak Forward Current I <sub>PF</sub> (Duty 1/10 @1KHZ)	150	150	150	150	150	150	150	100	100	100	100	100	mA
Operation Temperature T <sub>OPR</sub>	-40 to +80												°C
Storage Temperature T <sub>STG</sub>	-40 to +85												°C
Lead Soldering Temperature T <sub>SOI</sub>	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

BL-L101 Series



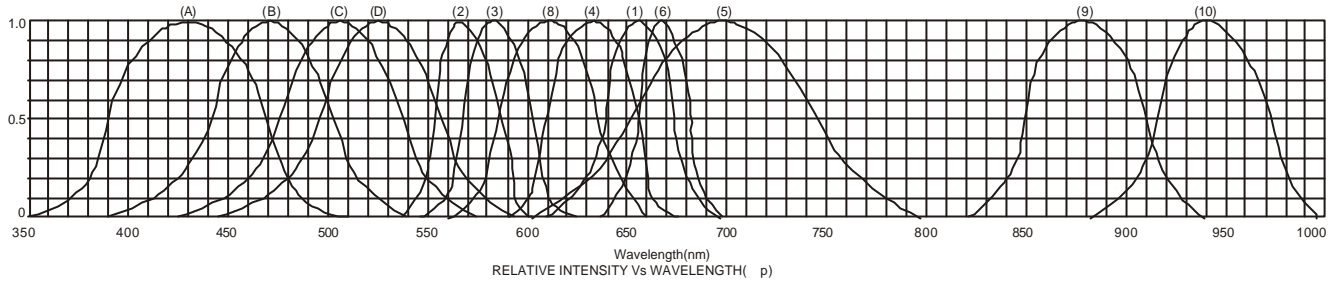
Notes:

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.

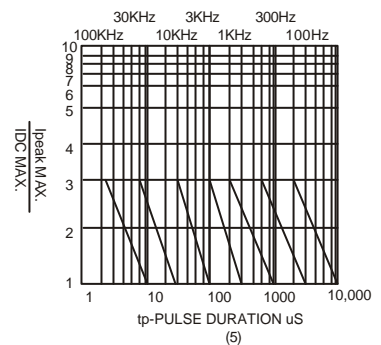
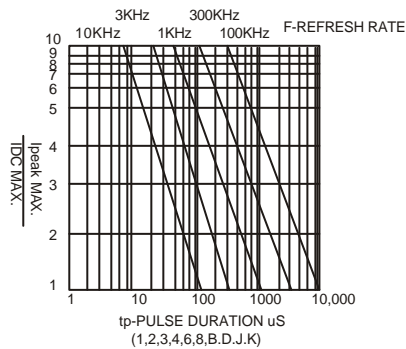
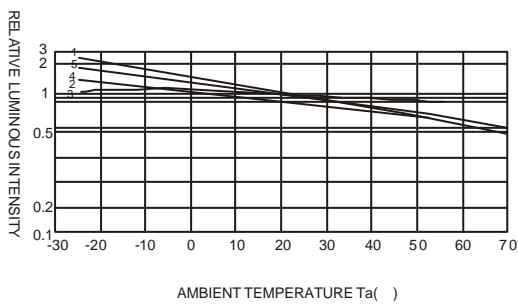
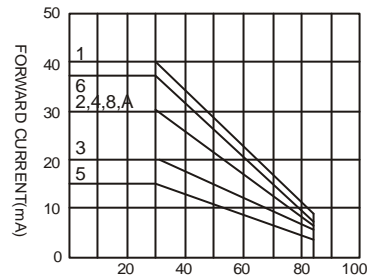
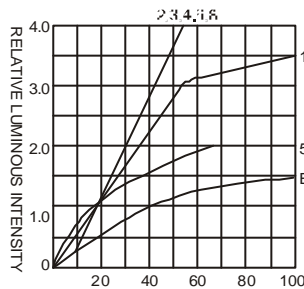
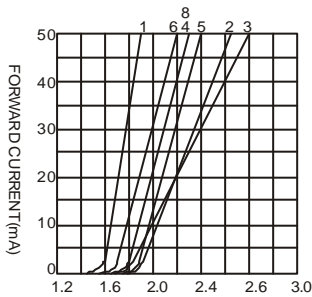
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### Typical electrical-optical characteristics curves:



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



NOTE:25 free air temperature unless otherwise specified