

## Round Tower Type LED lamp

BL-L189

## Features:

- 1.8 mm Round Tower Type LED Lamps..
- Ultra brightness.
- Choice of various viewing angles.
- Full color Display application.
  IC compatible /Low current capability.
- RoHs Compliance





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

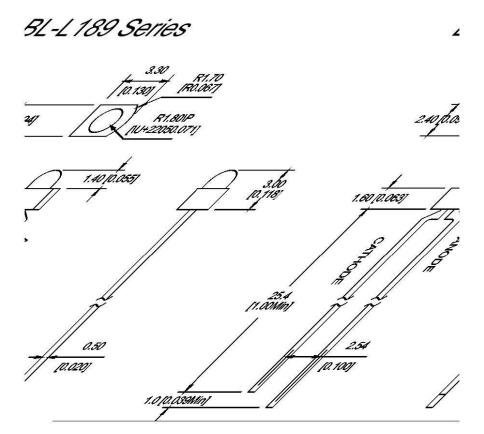
					Luminous				
Part Number	Emitted Color	Material	? <sub>P</sub> ≠ (n m)	Lens Type	Forward Voltage(VF) Unit:V		Intensity (Iv) Unit:mcd		Niewi ng Angle 2¦音/2
					Тур	Max	Min.	Тур.	(deg)
BL-L189SRC	Hi Red	AlGa As,SH	660		1.85	2.20	50	200	
BL-L189LRC	Super Red	AlGa As, DH	660		1.85	2.20	200	500	
BL-L189URC	Ultra Red	AlGa As, DDH	660		1.95	2.20	500	700	
BL-L189UEC	Ultra Orange	AlGainP	630		2.10	2.50	120	700	
BL-L189UYC	Ultra Yellow	AlGainP	590		2.10	2.50	150	600	
BL-L189UGC	Ultra Green	AlGaInP	574	Water	2.20	2.50	50	800	50
BL-L189PGC	Ultra Pure Green	InGaN	525	7	3.80	4.50	400	1200	50
BL-L189BGC	Ultra Bluish Green	InGaN	505		3.80	4.50	400	1000	
BL-L189BC	Blue	InGaN	430	e e e e e e e e e e e e e e e e e e e	3.80	4.50	400	800	
BL-L189UBC	Ultra Blue	InGaN	470		2.70	4.20	400	1200	
BL-L189VC	UV	InGaN	405		3.80	4.50	100	150	
BL-L189UWC	Ultra White	InGaN	1		2.70	4.20	400	2500	

☐ Absolute maximum ratings (Ta=25°C)

Parameter	SR	LR	UR	UE	UY	UG	PG	ВG	В	UB	υv	w	U ni t
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	mVV
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 Tops -40 to +80							°C						
Storage Temperature T <sub>STG</sub> -40 to +85									°C				
Lead Soldering Temperature Max.260±5°C for 3 sec Max.  TSOL (1.6mm from the base of the epoxy bulb)								°C					

APPROVED: XU L CHECKED: ZHANG WH DRAWN: LIFS REV NO: V.2
WWW.BETLUX.COM EMAIL: SALES@BETLUX.COM, BETLUX@BETLUX.COM Page 1 of 3 BL-L189

☐ Package configuration & Internal circuit diagram

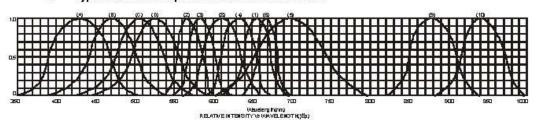


## Notes:

- All dimensions are in millimeters (inches)
   Tolerance is ±0.25(0.01")unless otherwise noted.
- Specifications are subject to change without notice.

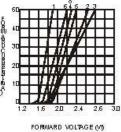
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## Typical electrical-optical characteristics curves:

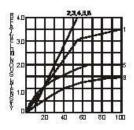


- (1) Ga As P/Ga As 655nm/Red
- (2) Ga P 570nm/Yellow Green
- (3) Ga As P/Ga P 585nm/Yellow
- (4) Ga Asp/Ga P 635nm/Orange & Hi-Eff Red
- (5) Ga P 700nm/Bright Red
- (6) Ga AlAs/GaAs 660nm/Super Red
- (8) Ga As P/Ga P 6 10nm/Super Red

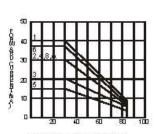
- (9) GaAlAs 880nm
- (10) GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) GaN/SiC 430 nm/Blue
- (B) hGaN/SiC 470nm/Blue
- (C) In GaN/SiC 505nm/Ultra Green
- (D) In GaAl/SiC 525nm/Ultra Green



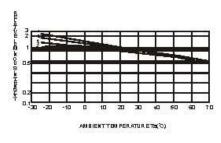


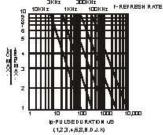


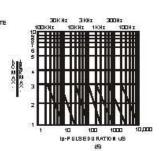
FORMARD CURRENT (n.4) RELATIVE LUMINOUS INTENSITY VS. FORMARD CURRENT



AMBIENT TEM PERATURE Ta(C)
FORWARD CURRENT VS. AMBIENT
TEM PERATUR E







NO TE25° tree air lemperature unless otherwise specified