Cylindrical flat top Type, FULL COLOR LED lamp

BL-L215

Features:

- 2mm Cylindrical LED, FLAT TOP, FULL COLOR LED RGB
- Ultra brightness.
- Choice of various viewing angles.
- Diffused, Transparent and Water clear lens are available.
- Common Anode or Common Cathode available
- IC compatible /Low current capability.
- RoHs Compliance





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

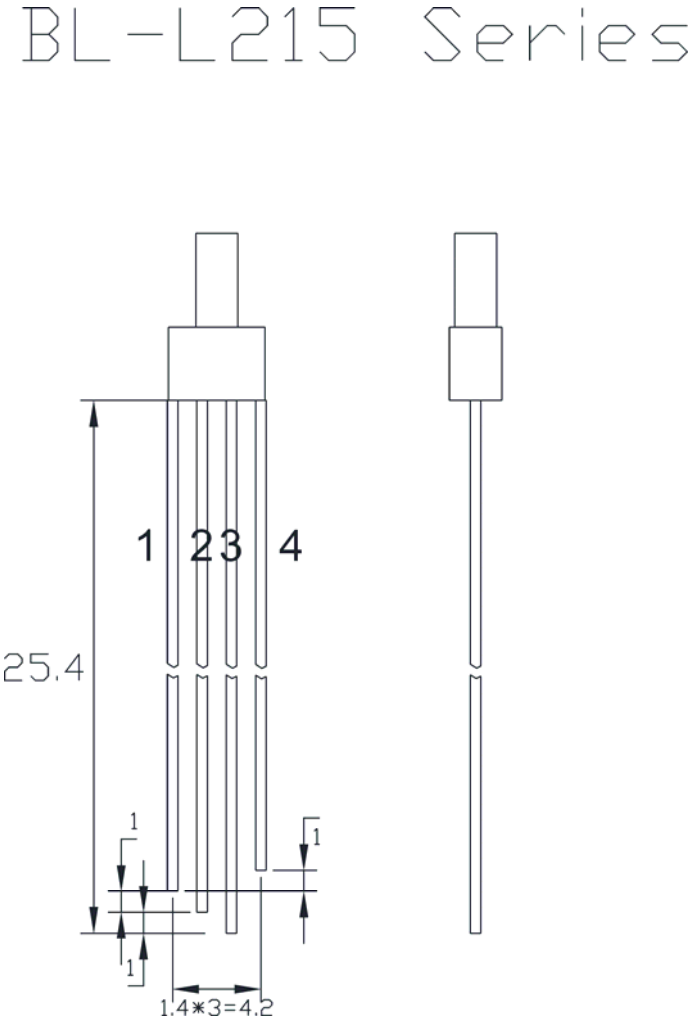
Part Number	Chip			Lens Type	Forward Voltage(VF) Unit:V		Luminous Intensity (Iv) Unit:mcd		Viewing Angle 2θ1/2 (deg)
	Emitted Color	Material	λP (nm)		Typ	Max	Min.	Typ.	
BL-L215RGBC-CA	Ultra Red	AlGaInP	630	Water Clear	2.10	2.50	120	700	20
	Ultra Pure Green	InGaN	525		3.10	4.10	400	1200	
	Ultra Blue	InGaN	470		3.10	4.10	800	2000	
BL-L215RGBW-CA	Ultra Red	AlGaInP	630	Water Diff.	2.10	2.50	80	400	30
	Ultra Pure Green	InGaN	525		3.10	4.10	300	600	
	Ultra Blue	InGaN	470		3.10	4.10	150	300	
BL-L215RGBC-CC	Ultra Red	AlGaInP	630	Water Clear	2.10	2.50	120	700	20
	Ultra Pure Green	InGaN	525		3.10	4.10	400	1200	
	Ultra Blue	InGaN	470		3.10	4.10	800	2000	
BL-L215RGBW-CC	Ultra Red	AlGaInP	630	Water Diff.	2.10	2.50	120	400	30
	Ultra Pure Green	InGaN	525		3.10	4.10	300	600	
	Ultra Blue	InGaN	470		3.10	4.10	150	300	

Note: -CC: common Cathode, -CA: common Anode

■ Absolute maximum ratings (Ta=25°C)

Parameter	UE	PG	UB	Unit
Forward Current I_F	30	30	30	mA
Power Dissipation P_d	65	110	120	mW
Reverse Voltage V_R	5	5	5	V
Peak Forward Current I_{PF} (Duty 1/10 @1KHZ)	150	150	100	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

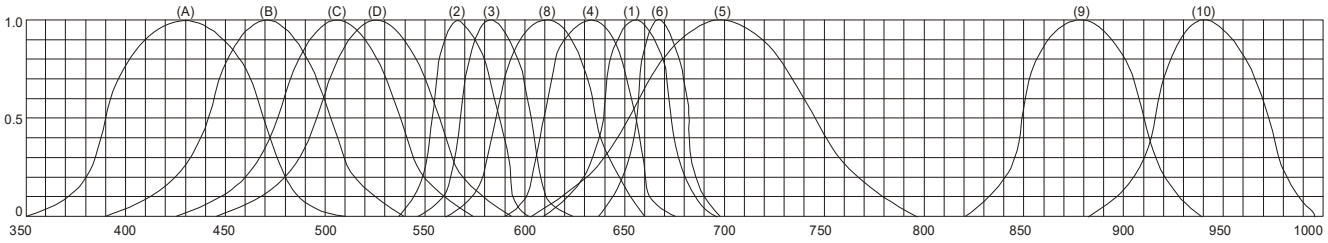
■ Package configuration & Internal circuit diagram



PIN 3: COMMON ANODE /COMMON CATHODE

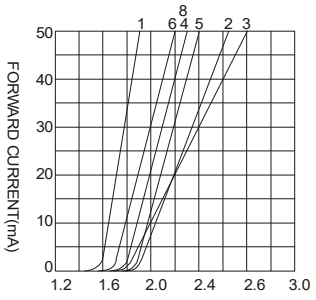
Notes:
1. All dimensions are in millimeters (inches)
2. Tolerance is ±0.25(0.01")unless otherwise noted.
3. Specifications are subject to change without notice.

■ Typical electrical-optical characteristics curves:

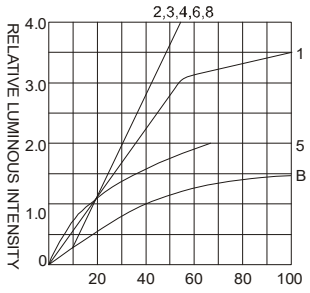


RELATIVE INTENSITY Vs WAVELENGTH(λ p)

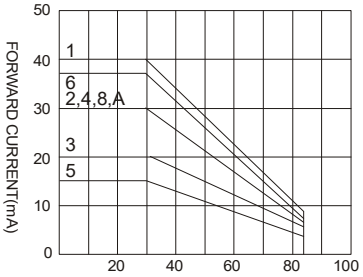
(1) - GaAsP/GaAs 655nm/Red
(2) - GaP 570nm/Yellow Green
(3) - GaAsP/GaP 585nm/Yellow
(4) - GaAsp/GaP 635nm/Orange & Hi-Eff Red
(5) - GaP 700nm/Bright Red
(6) - GaAlAs/GaAs 660nm/Super Red
(8) - GaAsP/GaP 610nm/Super Red
(9) - GaAlAs 880nm
(10) - GaAs/GaAs & GaAlAs/GaAs 940nm
(A) - GaN/SiC 430nm/Blue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



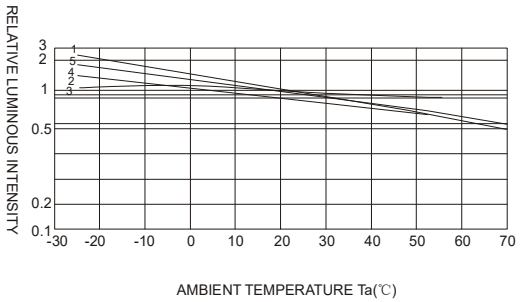
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



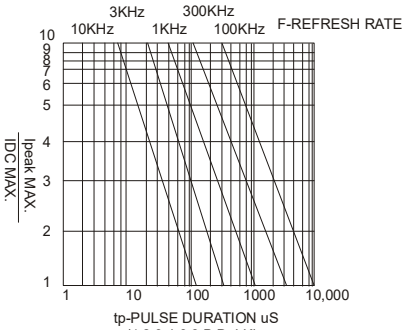
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



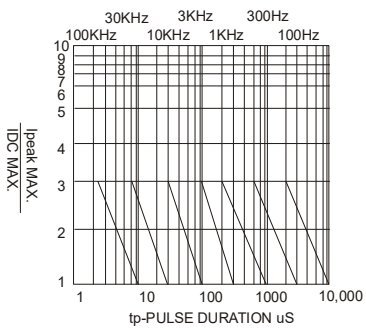
AMBIENT TEMPERATURE Ta(℃)
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE Ta(℃)



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



tp-PULSE DURATION uS
(5)

NOTE:25℃ free air temperature unless otherwise specified

■ Packing and weighting

