

Round Type, FULL COLOR LED lamp

BL-L515

Features:

- Ø 5mm Round Type, FULL COLOR LED lamp
- Ø Ultra brightness.
- Ø Choice of various viewing angles.
- Ø Diffused, Transparent and Water clear lens
- Ø IC compatible /Low current capability.
- Ø RoHs Compliance





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

	Chip						Luminous		
Part Number	Emitted Color	Material	ි _P (n m)	Lens Type	Forward Voltage(VF) Unit:V		Intensity (Iv) Unit:mcd		Niewi ng Angle 2:11/2
					Тур	Max	Min.	Тур.	(deg)
BL-L515RGBC-CA	Ultra Orange	AlGaInP	630	Water Clear	2.10	2.50	800	2000	20
	Ultra Pure Green	InGaN	525		3.80	4.50	2000	5000	
	Blue	InGaN	430		3.80	4.50	800	2000	
BL-L515RGBW-CA	Ultra Orange	AlGaInP	630	Water Diff.	2.10	2.50	200	500	30
	Ultra Pure Green	InGaN	525		3.80	4.50	300	600	
	Blue	InGaN	430		3.80	4.50	150	300	
BL-L515RGBC-CC	Ultra Orange	AlGaInP	630	Water Clear	2.10	2.50	800	2000	20
	Ultra Pure Green	InGaN	525		3.80	4.50	2000	5000	
	Blue	InGaN	430		3.80	4.50	800	2000	
BL-L515RGBW-CC	Ultra Orange	AlGaInP	630	Water Diff.	2.10	2.50	200	500	30
	Ultra Pure Green	InGaN	525		3.80	4.50	300	600	
	Blue	InGaN	430		3.80	4.50	150	300	

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

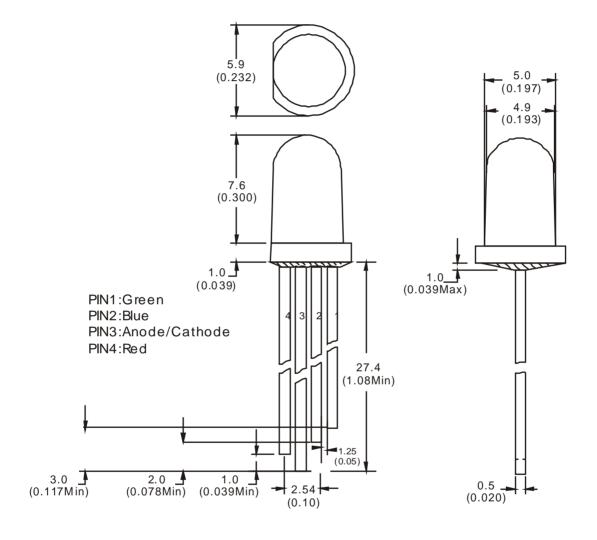
Absolute maximum ratings (Ta=25°C)

Parameter	UE	PG	UB	U nit		
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					
Storage Temperature T _{STG}	-40 to +85					
Lead Soldering Temperature T _{SOL}	Max.260±5°C for 3 sec Max. (1.6mm from the base of the epoxy bulb)					

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BL-L515

Package configuration & Internal circuit diagram



Notes:

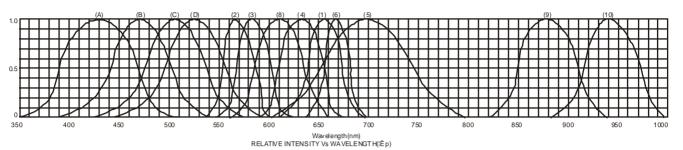
- 1. All dimensions are in millimeters (inches)
- 2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
- 3. Specifications are subject to change without notice.

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Round Type, FULL COLOR LED lamp

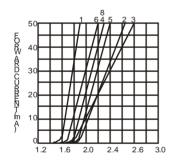
BL-L515

Typical electrical-optical characteristics curves:

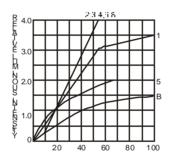


- (1) Ga As P/Ga As 655nm/Red
- (2) GaP 570nm/Yellow Green
- (3) Ga As P/GaP 585nm/Yellow
- (4) GaAsp/GaP 635nm/Orange & Hi-Eff Red
- (5) GaP 700nm/Bright Red
- (6) Ga AlAs/GaAs 660nm/Super Red
- (8) GaAsP/GaP610nm/Super Red

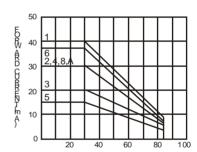
- (9) GaAlAs 880nm
- (10) GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) GaN/SiC 430nm/Blue
- (B) InGaN/SiC 470nm/Blue
- (C) InGaN/SiC 505nm/Ultra Green
- (D) InGaAl/SiC 525nm/Ultra Green



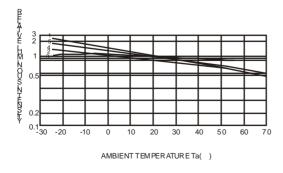
FORWARD VOLTAGE (Vf) FORWARD CURRENT VS. FORWARD VOLTAGE

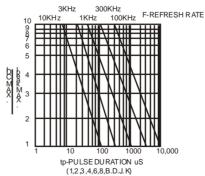


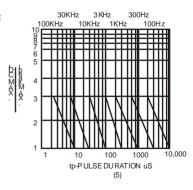
FORWARD CURRENT (mA) RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



AMBIENT TEMPERATURE Ta()
FORWARD CURRENT VS. AMBIENT
TEMPERATURE







NOTE:25 free air temperature unless otherwise specified

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