

Round Type LED lamp

BL-L502

■ Features:

- ➤ 5mm Round Type LED lamp
- 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	(_		Luminous					
	Emitted Color	Material	λ _P (n m)	Lens Type	Forward Voltage(VF) Unit:V		Intensity (Iv) Unit:mcd		ng Angle 201/2	
					Тур	Max	Min.	Тур.	(deg)	
BL-L502SRC	Hi Red	AlGaAs,SH	660		1.85	2.20	50	250	20	
BL-L502LRC	Super Red	AlGaAs,DH	660		1.85	2.20	250	600		
BL-L502URC	Ultra Red	AlGaAs,DDH	660		1.95	2.20	600	1000		
BL-L502UEC	Ultra Orange	AlGaInP	630		2.10	2.50	800	2000		
BL-L502UYC	Ultra Yellow	AlGaInP	590		2.10	2.50	1000	2200		
BL-L502UGC	Ultra Green	AlGaInP	574	Water	2.20	2.50	300	700		
BL-L502PGC	Ultra Pure Green	InGaN	525	Clear	3.80	4.50	2000	5000		
BL-L502BGC	Ultra Bluish Green	InGaN	505		3.80	4.50	1800	4000		
BL-L502BC	Blue	InGaN	430		3.80	4.50	800	2000		
BL-L502UBC	Ultra Blue	InGaN	470		2.70	4.20	2000	5000		
BL-L502VC	UV	InGaN	405		3.80	4.50	80	150		
BL-L502UWC	Ultra White	InGaN	/		2.70	4.20	3000	10000		

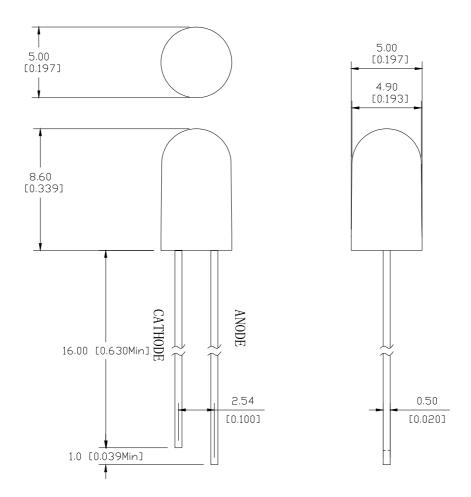
■ Absolute maximum ratings (Ta=25°C)

- Absolute maximum rumgs (14-200)													
Parameter	SR	LR	UR	UE	UY	UG	PG	BG	В	UB	UV	W	U nit
Forward Current I _F		25	25	30	30	30	30	30	30	30	30	30	mA
Power Dissipation P _d		60	60	65	65	75	110	110	120	120	120	120	mW
Reverse Voltage V _R		5	5	5	5	5	5	5	5	5	5	5	V
Peak Forward Current I _{PF} (Duty 1/10 @1KHZ)	150	150	150	150	150	150	150	100	100	100	100	100	mA
Operation Temperature T _{OPR} -40 to +80													
Storage Temperature T _{STG} -40 to +85							${\mathbb C}$						
Lead Soldering Temperature $\text{Max.}260\pm5^{\circ}\text{C}$ for 3 sec Max. TSOL (1.6mm from the base of the epoxy bulb)								${\mathbb C}$					

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■ Package configuration & Internal circuit diagram



Notes:

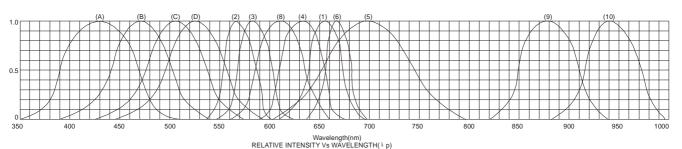
- 1. All dimensions are in millimeters (inches)
- Tolerance is $\pm 0.25(0.01")$ unless otherwise noted. 2.
- Specifications are subject to change without notice.

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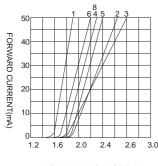
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■ Typical electrical-optical characteristics curves:

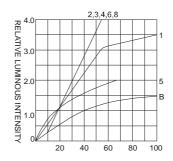


- (1) GaAsP/GaAs 655nm/Red
- (2) GaP 570nm/Yellow Green
- (3) GaAsP/GaP 585nm/Yellow
- (4) GaAsp/GaP 635nm/Orange & Hi-Eff Red
- (5) GaP 700nm/Bright Red
- (6) GaAlAs/GaAs 660nm/Super Red
- (8) GaAsP/GaP 610nm/Super Red

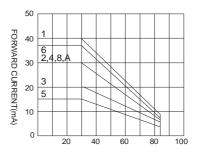
- (9) GaAlAs 880nm
- (10) GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) GaN/SiC 430nm/Blue
- (B) InGaN/SiC 470nm/Blue
- (C) InGaN/SiC 505nm/Ultra Green
- (D) InGaAl/SiC 525nm/Ultra Green



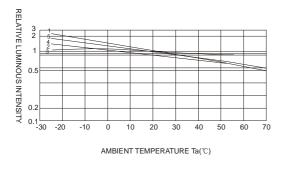
FORWARD VOLTAGE (Vf) FORWARD CURRENT VS. FORWARD VOLTAGE

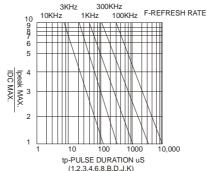


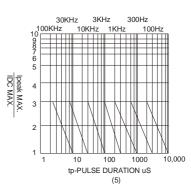
FORWARD CURRENT (mA) RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



AMBIENT TEMPERATURE $\text{Ta}(^{\circlearrowright})$ FORWARD CURRENT VS. AMBIENT TEMPERATURE







NOTE:25℃ free air temperature unless otherwise specified

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