

Cylindrical LED lamp

BL-L342

Features:

- 3.0mm Cylindrical LED lamp
- Ultra brightness.
- Choice of various viewing angles.
- Diffused, Transparent and Water clear lens are available.
- IC compatible /Low current capability.
- RoHs Compliance



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

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-L342SRC	Hi Red	AlGaAs,SH	660	Water Clear	1.85	2.20	30	80	100
BL-L342LRC	Super Red	AlGaAs,DH	660		1.85	2.20	70	150	
BL-L342URC	Ultra Red	AlGaAs,DDH	660		1.95	2.20	125	350	
BL-L342UEC	Ultra Red	AlGaInP	630		2.10	2.50	160	450	
BL-L342UYC	Ultra Yellow	AlGaInP	590		2.10	2.50	160	450	
BL-L342UGC	Ultra Green	AlGaInP	574		2.20	2.50	35	110	
BL-L342PGC	Ultra Pure Green	InGaN	525		3.80	4.50	320	1100	
BL-L342BGC	Ultra Bluish Green	InGaN	505		3.80	4.50	250	900	
BL-L342BC	Blue	InGaN	430		3.80	4.50	420	900	
BL-L342UBC	Ultra Blue	InGaN	470		2.70	4.20	550	1100	
BL-L342VC	UV	InGaN	405		3.80	4.50	35	110	
BL-L342UWC	Ultra White	InGaN	/		2.70	4.20	300	1500	

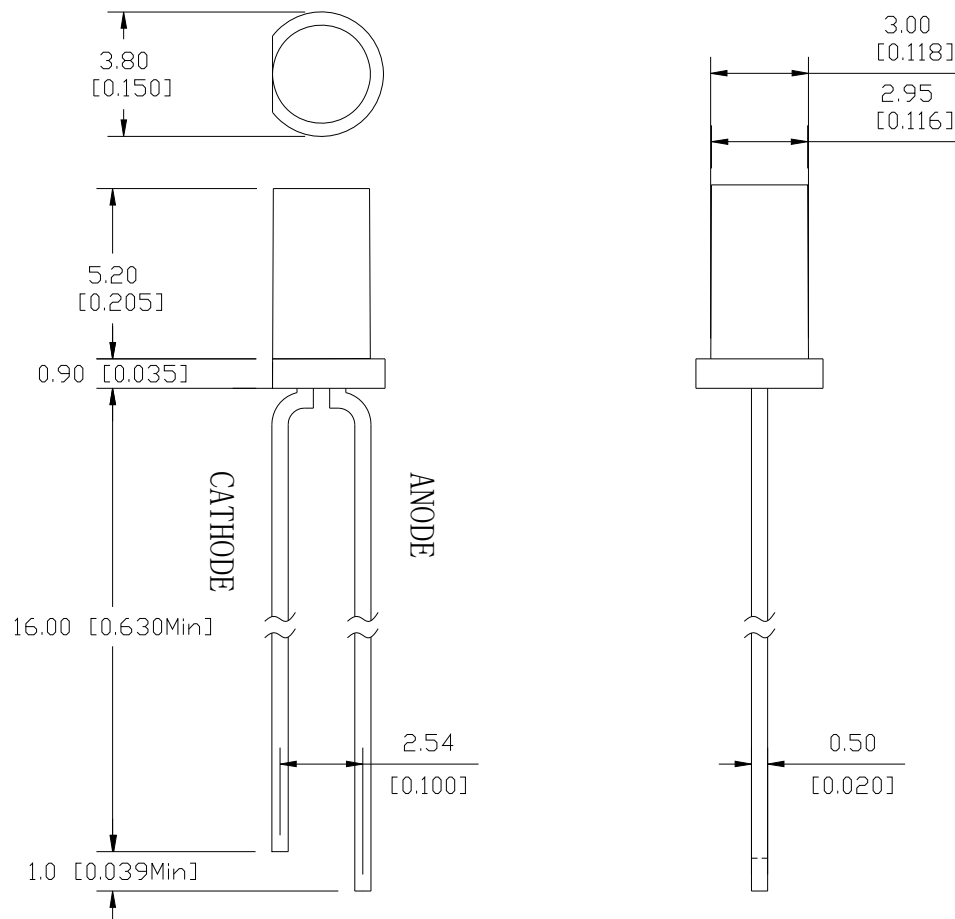
■ Absolute maximum ratings (Ta=25°C)

Parameter	SR	LR	UR	UE	UY	UG	PG	BG	B	UB	UV	W	Unit
Forward Current I_F	25	25	25	30	30	30	30	30	30	30	30	30	mA
Power Dissipation P_d	60	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	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												°C
Storage Temperature T_{STG}	-40 to +85												°C
Lead Soldering Temperature TSOL	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



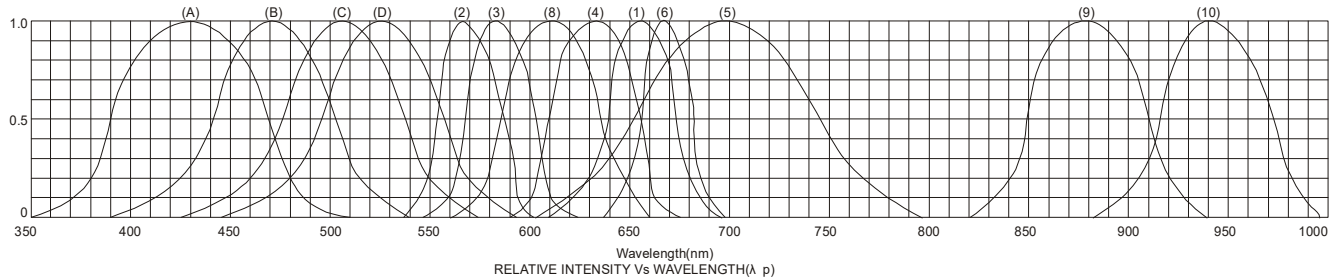
Notes:

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.

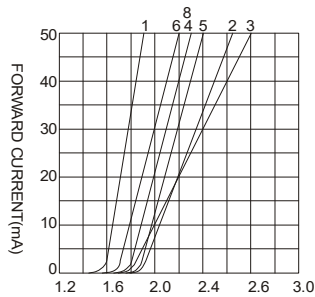
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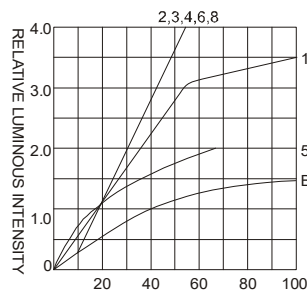
■ Typical electrical-optical characteristics curves:



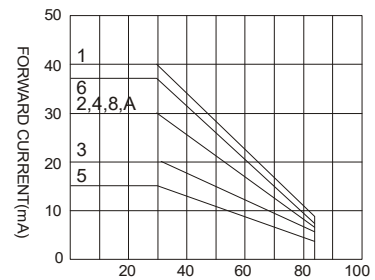
- | | |
|---|--------------------------------------|
| (1) - GaAsP/GaAs 655nm/Red | (9) - GaAlAs 880nm |
| (2) - GaP 570nm/Yellow Green | (10) - GaAs/GaAs & GaAlAs/GaAs 940nm |
| (3) - GaAsP/GaP 585nm/Yellow | (A) - GaN/SiC 430nm/Blue |
| (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red | (B) - InGaN/SiC 470nm/Blue |
| (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 | |



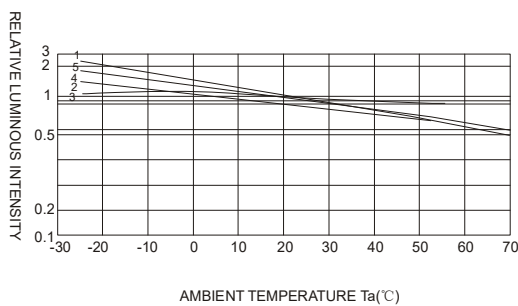
FORWARD VOLTAGE (V)
FORWARD CURRENT VS.
FORWARD VOLTAGE



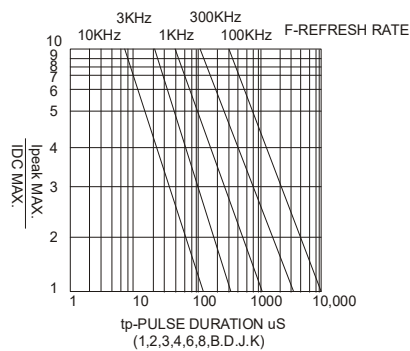
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



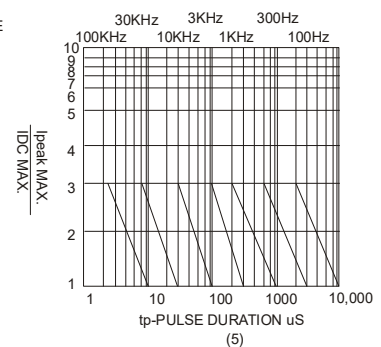
AMBIENT TEMPERATURE T_a (°C)
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE T_a (°C)



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



(5)

NOTE: 25°C free air temperature unless otherwise specified

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■ Packing and weighting

