

**Round Type, Bi-color LED lamp**
**BL-L819**
**Features:**

- Ø 8.0mm Round Type BI-COLOR LED Lamps, with 3 leads
- 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


**n 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 201/2(deg)
	Emitted Color	Material	I <sub>P</sub> (nm)		Typ	Max	Min.	Typ	
					BL-L819EGW	Orange	GaAsP/GaP	635	
	Green	GaP/GaP	570	2.20	2.50	5	12		
BL-L819YGW	Yellow	GaAsP/GaP	585	2.10	2.50	5	12		
	Green	GaP/GaP	570	2.20	2.50	5	12		
BL-L819UEUGW	Ultra Yellow	AlGaInP	630	2.10	2.50	80	100		
	Ultra Green	AlGaInP	574	2.20	2.50	60	80		

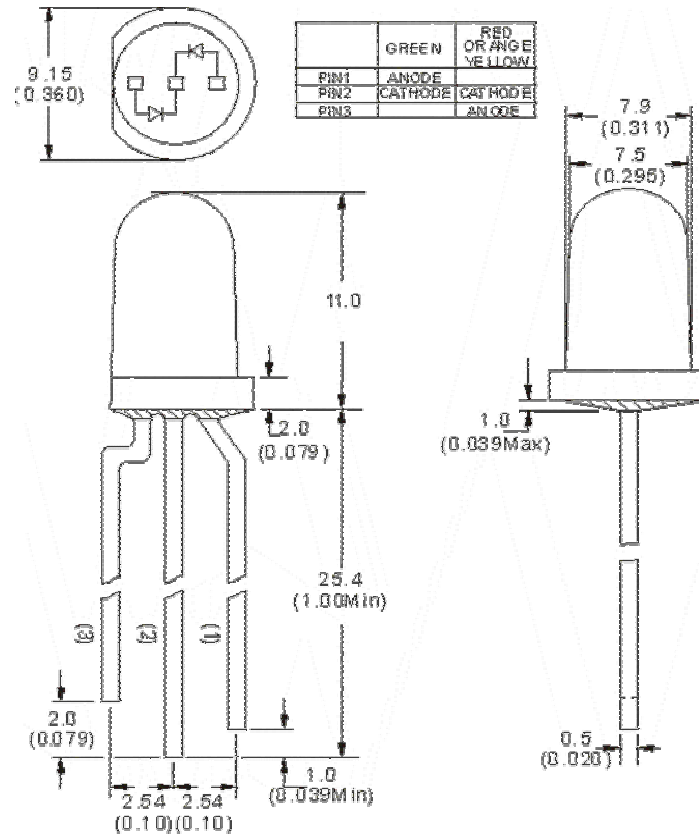
**n Absolute maximum ratings (Ta=25°C)**

Parameter	E	UE	Y	G	UG	Unit
Forward Current I <sub>F</sub>	25	30	25	30	30	mA
Power Dissipation P <sub>d</sub>	60	65	60	65	75	mW
Reverse Voltage V <sub>R</sub>	5	5	5	5	5	V
Peak Forward Current I <sub>PF</sub> (Duty 1/10 @1KHZ)	150	150	150	150	150	mA
Operation Temperature T <sub>OPR</sub>	-40 to +80					°C
Storage Temperature T <sub>STG</sub>	-40 to +85					°C
Lead Soldering Temperature T <sub>SOL</sub>	Max.260±5°C for 3 sec Max. (1.6mm from the base of the epoxy bulb)					°C

Round Type, Bi-color LED lamp

BL-L819

■ Package configuration & Internal circuit diagram



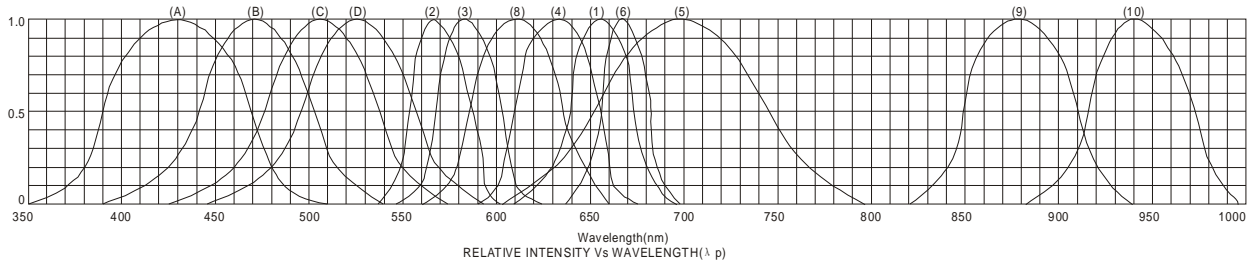
Notes:

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.

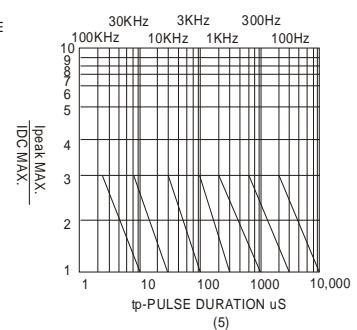
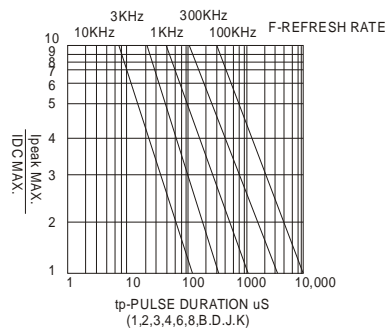
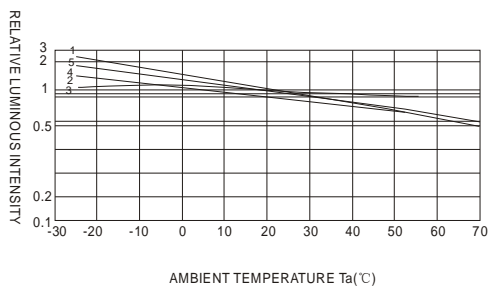
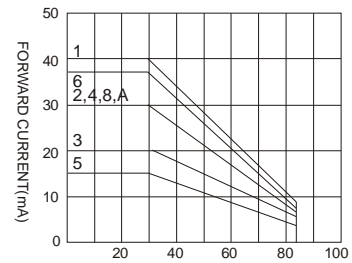
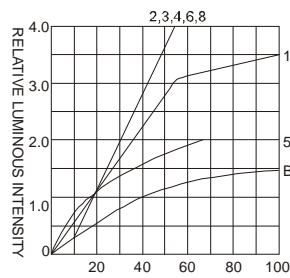
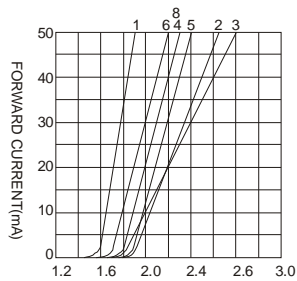
## Round Type, Bi-color LED lamp

**BL-L819**

### 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           |                                      |



NOTE:25°C free air temperature unless otherwise specified