

SUPER FLUX LED LAMP, 4PIN LED
BL-FL7653xx
Features:

- Ø 7.62*7.62*4.7MM, 3MM Elliptical head SUPER FLUX LED LAMP
- Ø Ultra brightness.
- Ø Wide Viewing Angles.
- Ø Ideal For Backlight and Indicator
- Ø RoHs Compliance


Electrical-optical characteristics: (Ta=25°C) (Test Condition: IF=70mA)

Part Number	Chip			Lens Type	Forward Voltage(VF) Unit:V		Luminous Intensity (lv) Unit:mcd		Viewing Angle 2θ/2 (deg)
	Emitted Color	Material	λ _p (nm)		Typ	Max	Min.	Typ.	
					BL-FL7653URC	Ultra Red	AlGaAs,DDH	660	
BL-FL7653UEC	Ultra Orange	AlGaInP	630	2.10	2.50	150	750		
BL-FL7653UYC	Ultra Yellow	AlGaInP	590	2.10	2.50	200	800		
BL-FL7653UGC	Ultra Green	AlGaInP	574	2.20	2.50	300	550		
BL-FL7653PGC	Ultra Pure Green	InGaN	525	3.80	4.50	600	2800		
BL-FL7653BGC	Ultra Bluish Green	InGaN	505	3.80	4.50	500	2500		
BL-FL7653UBC	Ultra Blue	InGaN	470	2.70	4.20	500	2800		
BL-FL7653UWC	Ultra White	InGaN	/	2.70	4.20	500	2500		

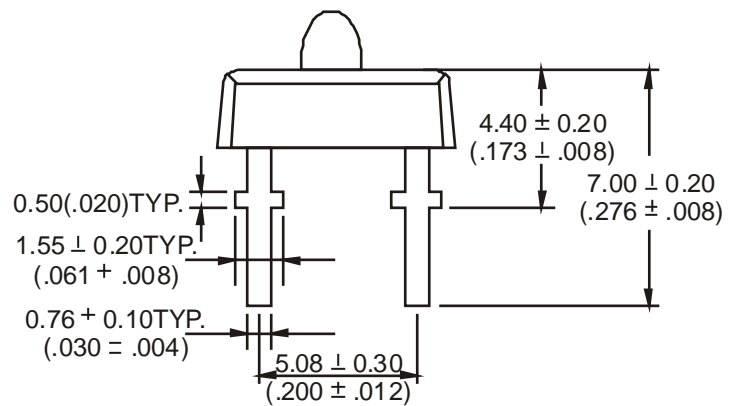
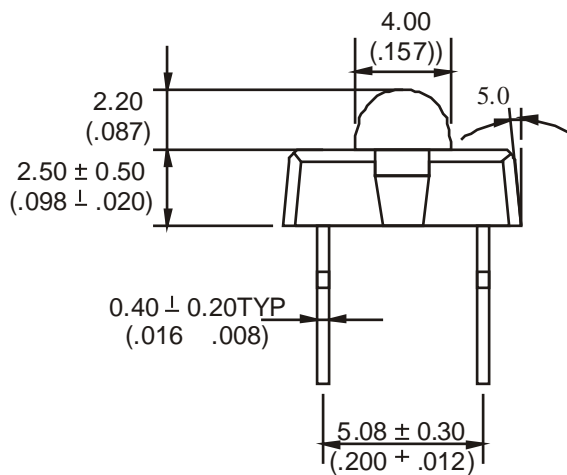
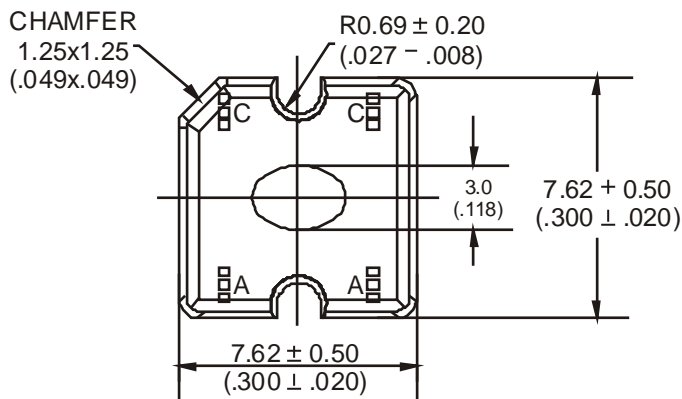
Absolute maximum ratings (Ta=25°C)

Parameter	UR	UE	UY	UG	PG	BG	UB	W	Unit
Forward Current I _F	25	30	30	30	30	30	30	30	mA
Power Dissipation P _d	60	65	65	75	110	110	120	120	mW
Reverse Voltage V _R	5	5	5	5	5	5	5	5	V
Peak Forward Current I _{PF} (Duty 1/10 @1KHZ)	150	150	150	150	150	100	100	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

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



(5)

NOTE:25 free air temperature unless otherwise specified

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Packing and weighting

