

SUPER FLUX LED LAMP, 4PIN LED

BL-FL7680xx

Features:

- Ø 7.62*7.62*5.0MM, 5MM ROUND 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=20mA)

Part Number	Chip			Lens Type	Forward Voltage(VF) Unit:V		Luminous Intensity (Iv) Unit:mcd		Viewing Angle 2θ/2 (deg)
	Emitted Color	Material	λp (nm)		Typ	Max	Min.	Typ.	
					Water Clear				
BL-FL7680URC	Ultra Red	AlGaAs,DDH	660		1.95	2.20	600	1500	100
BL-FL7680UEC	Ultra Orange	AlGaInP	630		2.10	2.50	800	1800	
BL-FL7680UYC	Ultra Yellow	AlGaInP	590		2.10	2.50	600	1600	
BL-FL7680UGC	Ultra Green	AlGaInP	574		2.20	2.50	200	1000	
BL-FL7680PGC	Ultra Pure Green	InGaN	525		3.80	4.50	1000	6000	
BL-FL7680BGC	Ultra Bluish Green	InGaN	505		3.80	4.50	800	4800	
BL-FL7680UBC	Ultra Blue	InGaN	470		2.70	4.20	800	5000	
BL-FL7680UWC	Ultra White	InGaN	/		2.70	4.20	1000	6000	

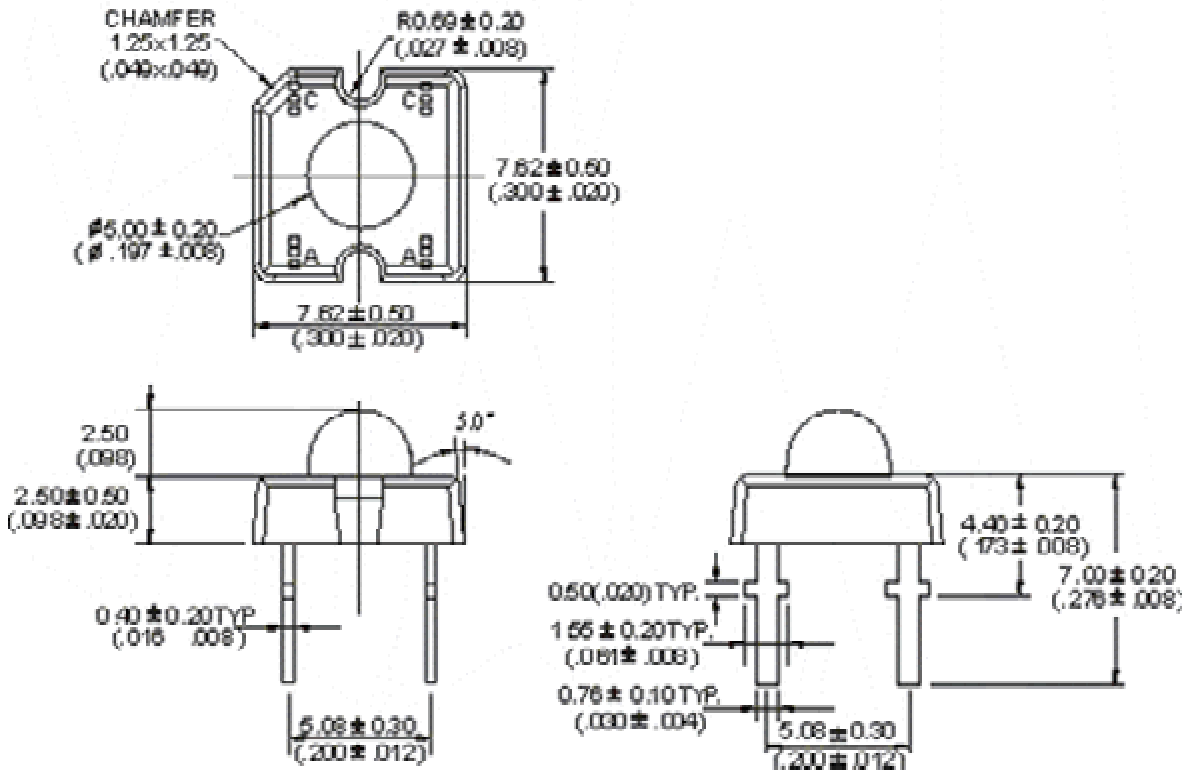
Absolute maximum ratings (Ta=25°C)

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.

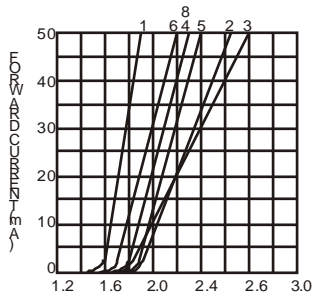
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Typical electrical-optical characteristics curves:



- (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 µs
(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

