

LED LAMP CLUSTER
BL-CR15AY4
Features:

- Shape: Round
- Diameter: 15mm
- High visibility
- Emitting Color: Ultra Yellow
- No of Built-in 5mm LED Lamps :
- Ultra Yellow - 4pcs.
- Waterproof Package With Hood Suitable
- For Outdoor and Indoor Information Boards
- Rohs Compliance


Selection Guide

Part No.	Description
BL-CR15AY4	19mm round Lamp cluster 4 Ultra Yellow LEDs ,round packed

Description:

- Color Code & Chip characteristics: (Test Condition: IF=20mA)

Part No.	Built-in Lamp Package	Built-in Lamp Part No. FYL-	Chip		Lens Appearance	Electro-optical Data(At 20mA)			Viewing Angle 2 1/2 (deg)
			Material/Emitted Color	Peak Wave Length p (nm)		Vf (V)		Iv (mcd)	
						Typ	Max	Typ	
BL-CR15 AY4	4x5x7mm 1.0" Lead Oval	5063UYC	Ultra Yellow AlGaInP	590	Water Clear	2.10	2.50	850	X-X 60 Y-Y 30

Notes:

1. 1/2 Is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

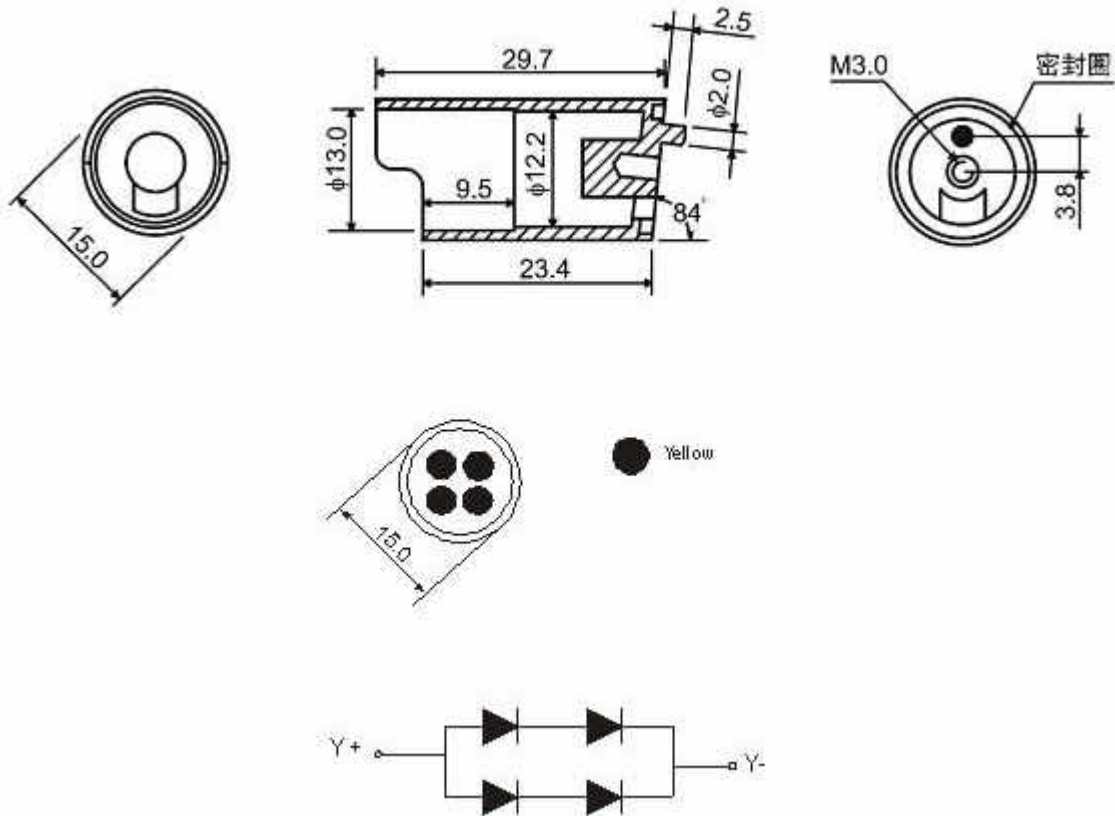
Absolute Maximum Rating (Each Lamp, Ta=25 Derate above 25)

Parameter	UY		Unit
Forward Current I_F	30		mA
Power Dissipation P_d	65		mW
Reverse Voltage V_R	5		V
Peak Forward Current I_{PF} (Duty 1/10 @1KHZ)	150		mA
Operation Temperature T_{OPR}	-30 to +80		
Storage Temperature T_{STG}	-40 to +85		
Lead Soldering Temperature T_{SOL}	Max.260 ± 5 for 3 sec Max. (1.6mm from the base of the epoxy bulb)		

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Package configuration & Internal circuit diagram:



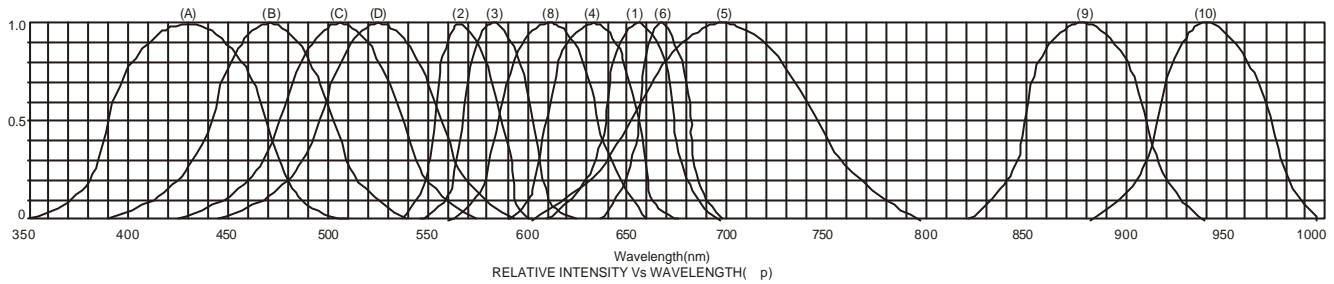
Notes:

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

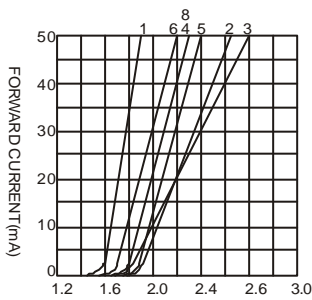
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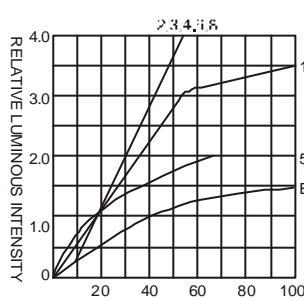
Typical electrical-optical characteristics curves:



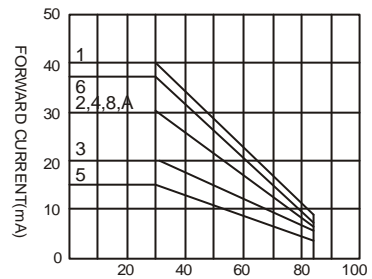
- | | |
|---|--------------------------------------|
| (1) - GaAsP/GaAs 655nm/Red | (9) - GaAlAs 880nm |
| (2) - GaP 570nm/Yellow Green | (10) - GaAs/GaAs & GaAlAs/GaAs 940nm |
| (3) - GaAsP/GaP 585nm/Yellow | (A) - GaN/SiC 430nm/Blue |
| (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red | (B) - InGaN/SiC 470nm/Blue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



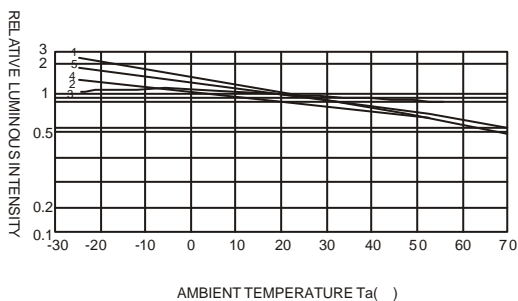
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



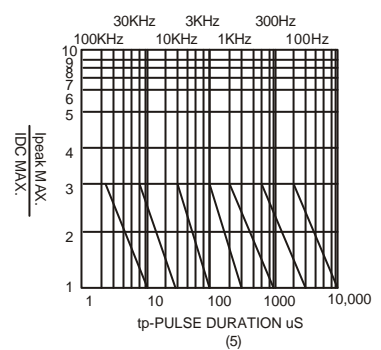
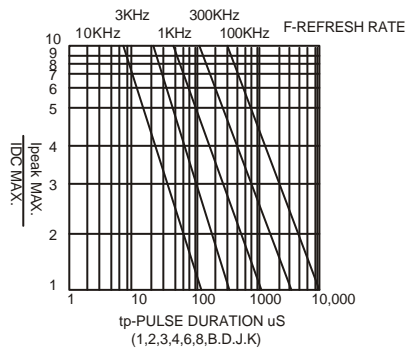
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



AMBIENT TEMPERATURE Ta()
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE Ta()



NOTE:25 free air temperature unless otherwise specified