

LED LAMP CLUSTER

BL-CR15AR2G3

Features:

- ∅ ·Shape: Round
- ∅ ·Diameter: 15mm
- ∅ ·High visibility
- ∅ ·Emitting Color: red, green
- ∅ ·No of Built-in 5mm LED Lamps :
- ∅ ·Ultra orange - 2pcs, ultra green – 3pcs
- ∅ ·Waterproof Package With Hood Suitable
- ∅ ·For Outdoor and Indoor Information Boards
- ∅ ·Rohs Compliance



Selection Guide

Part No.	Description
BL-CR15AR2G3	15mm Round Lamp cluster 2 red ,3 green, round packed

Description:

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

Part No.	Built-in Lamp Package	Built-in Lamp Part No. BL-L	Chip		Lens Appearance	Electro-optical Data(At 20mA)			Viewing Angle 2:θ/2 (deg)
			Material/Emitted Color	Peak Wave Length λp (nm)		Vf (V)		Iv (mcd)	
						Typ	Max		
BL-CR15 AR2G3	4x5x7mm 1.0" Lead Oval	563UET	AlGaInP/ Ultra Orange	630	Water clear	2.10	2.50	800	X-X 45 Y-Y 25
		563UGT	AlGaInP/ Ultra Green	574	Water clear	2.20	2.50	700	

Notes:

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

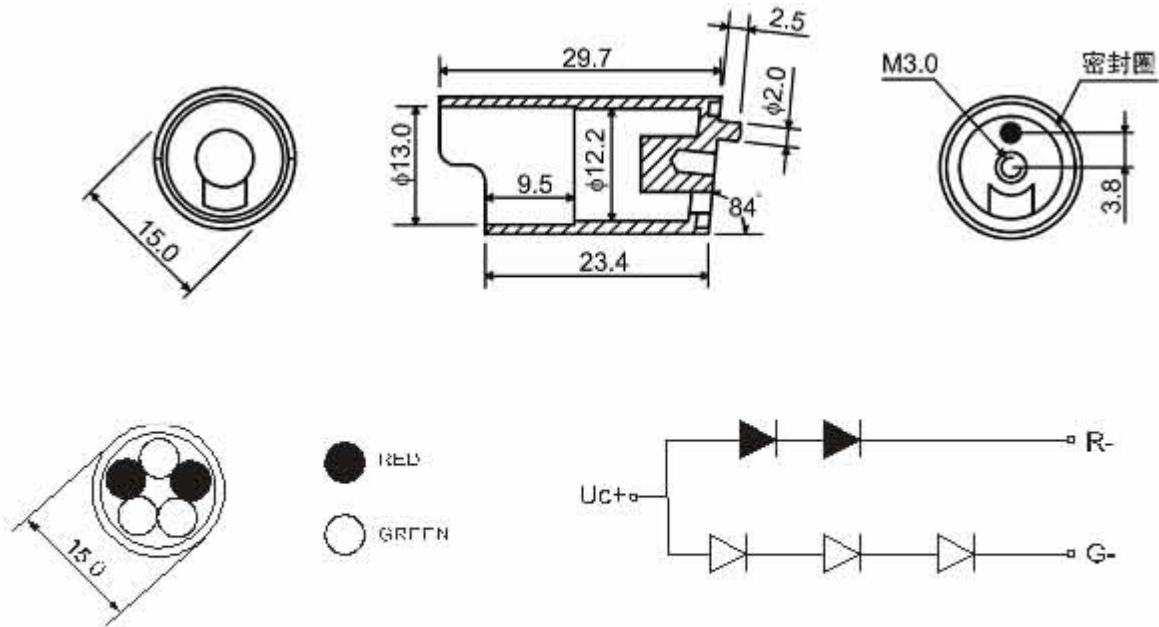
Absolute Maximum Rating (Each Lamp, Ta=25°C Derate above 25°C)

Parameter	UE	UG	Unit
Forward Current I _F	30	30	mA
Power Dissipation P _d	78	78	mW
Reverse Voltage V _R	5	5	V
Peak Forward Current I _{PF} (Duty 1/10 @1KHZ)	100	100	mA
Operation Temperature T _{OPR}	-30 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:



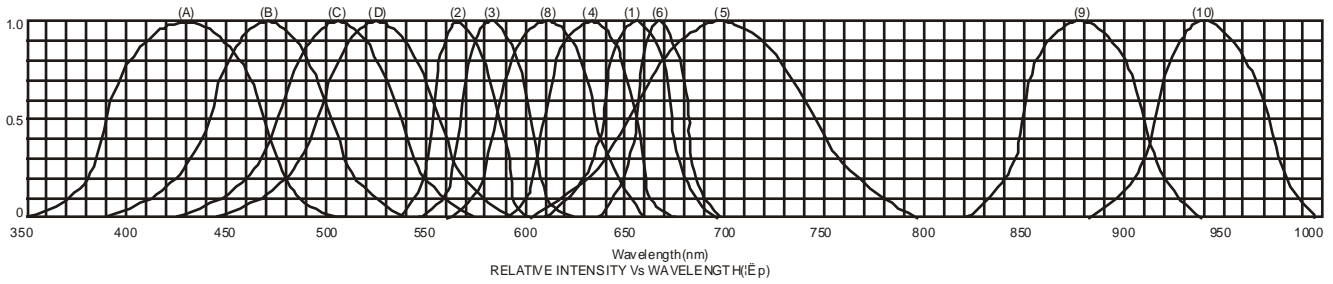
Notes:

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

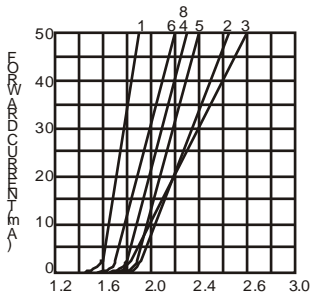
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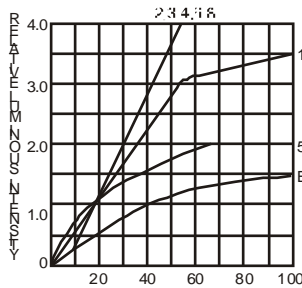
Typical electrical-optical characteristics curves:



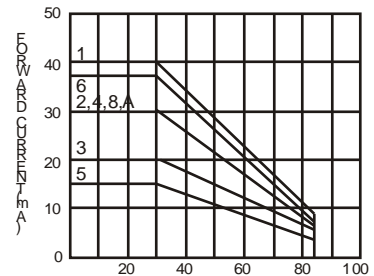
- (1) - GaAsP/GaAs 655nm/Red
- (2) - GaP 570nm/Yellow Green
- (3) - GaAsP/GaP 585nm/Yellow
- (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red
- (5) - GaP 700nm/Bright Red
- (6) - GaAlAs/GaAs 660nm/Super Red
- (8) - GaAsP/GaP 610nm/Super Red
- (9) - GaAlAs 880nm
- (10) - GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) - GaN/SiC 430nm/Blue
- (B) - InGaN/SiC 470nm/Blue
- (C) - InGaN/SiC 505nm/Ultra Green
- (D) - InGaAlSiC 525nm/Ultra Green



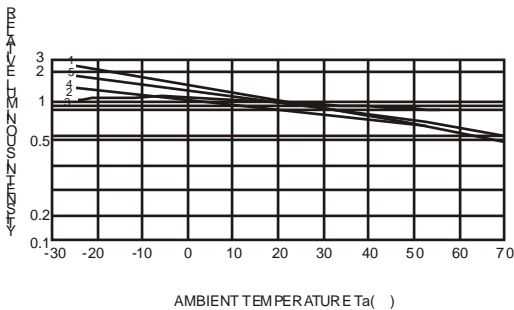
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



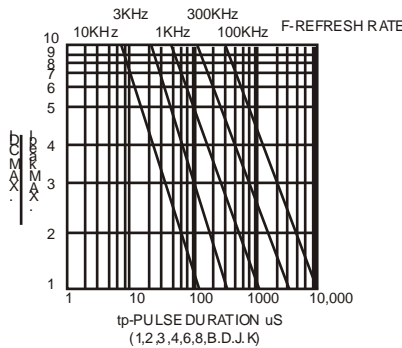
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



AMBIENT TEMPERATURE Ta()
FORWARD CURRENT VS. AMBIENT
TEMPERATURE

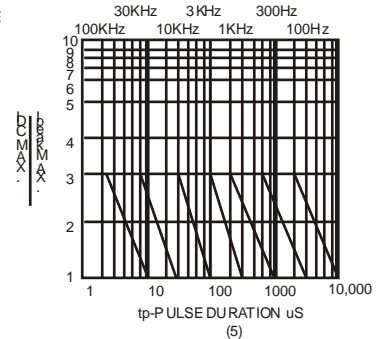


AMBIENT TEMPERATURE Ta()



FORWARD CURRENT (mA)

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



FORWARD CURRENT (mA)

tp-PULSE DURATION μs
(5)

NOTE:25 free air temperature unless otherwise specified

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Packing and weighting

