

LED LAMP CLUSTER

BL-CR19AR2G2B1

Features:

- ∅ ·Shape: Round
- ∅ ·Diameter: 19mm
- ∅ ·High visibility
- ∅ ·Emitting Color: Ultra Yellow
- ∅ ·No of Built-in 5mm LED Lamps :
- ∅ ·Ultra orange - 2pcs,green – 2pcs ,blue – 1pcs.
- ∅ ·Waterproof Package With Hood Suitable
- ∅ ·For Outdoor and Indoor Information Boards
- ∅ ·Rohs Compliance



Selection Guide

Part No.	Description
BL-CR19AR2G2B1	19mm square Lamp cluster 2 red ,2 green,1 blue,square 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:θ/2 (deg)
			Material/Emitted Color	Peak Wave Length λp (nm)		Vf (V)		Iv (mcd)	
						Typ	Max	Typ	
BL-CR19A R2G2B1	4x5x7mm 1.0" Lead Oval	5063UEC	AlGaInP/ Ultra Orange	630	Water clear	2.10	2.50	750	X-X 45 Y-Y 25
		5063GC	GaP/GaP/ Green	570	Water clear	2.20	2.50	200	
		5063BC	GaN/SiC Blue	430	Water clear	3.80	4.50	500	

Notes:

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

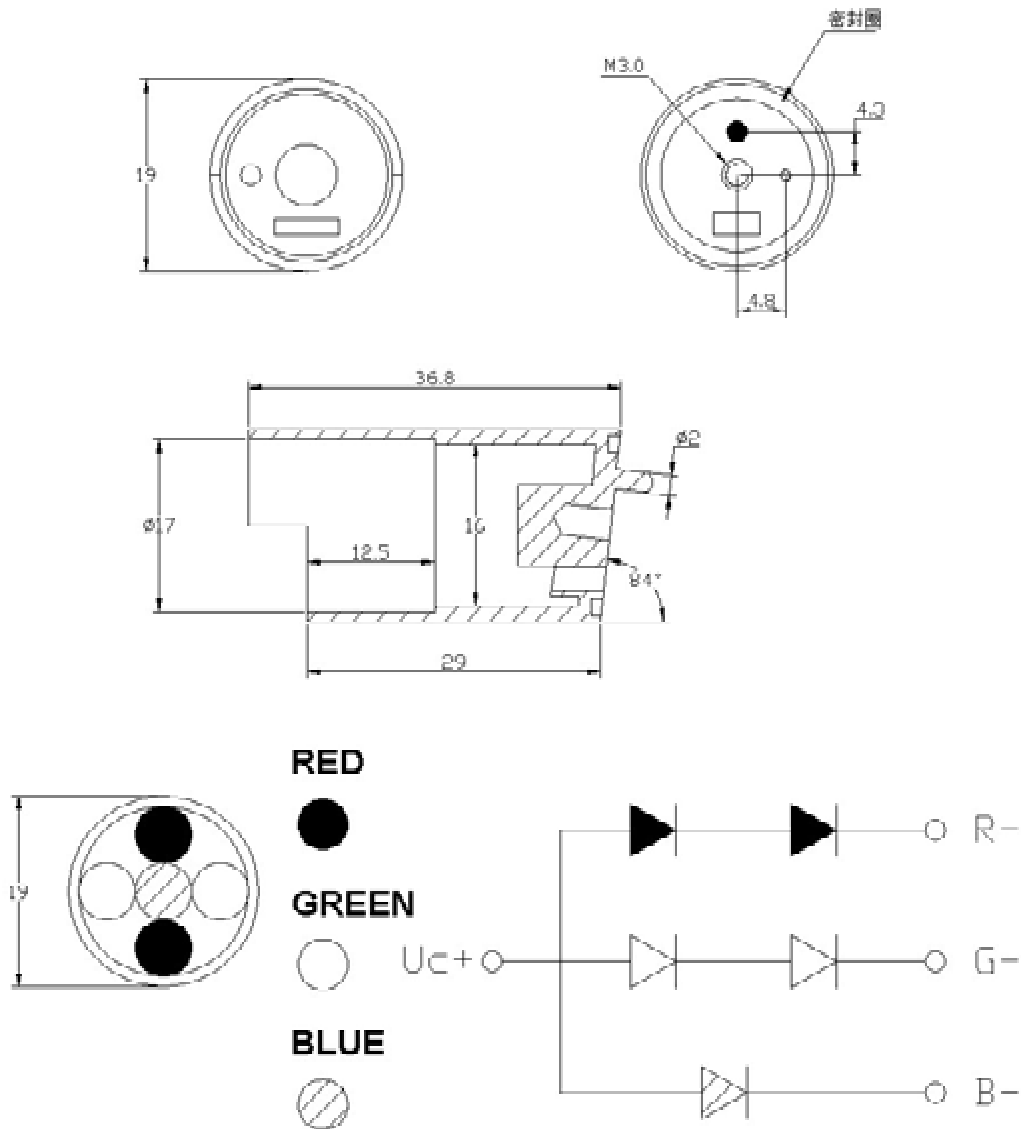
Absolute Maximum Rating (Each Lamp, Ta=25°C Derate above 25°C)

Characteristic	Symbol	Ultra Orang	Ultra Green	Ultra Green	Unit
Spectral Line Half width	λ _{1/2}	17	30	30	nm
Pulse Forward Current	IFp	150	150	150	mA
DC Forward Current	IF	30	30	30	mA
Reverse Voltage	VR	5	5	5	V
Power Dissipature	PD	65	75	120	mW
Operating Temperature	Topr	-40°C-80°C			
Storage Temperature	Tstg	-40°C-85°C			
Lead Soldering Temperature		Max.260±5°C for 3 sec Max. (1.6mm from the base of the epoxy bulb)			

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Package configuration & Internal circuit diagram:



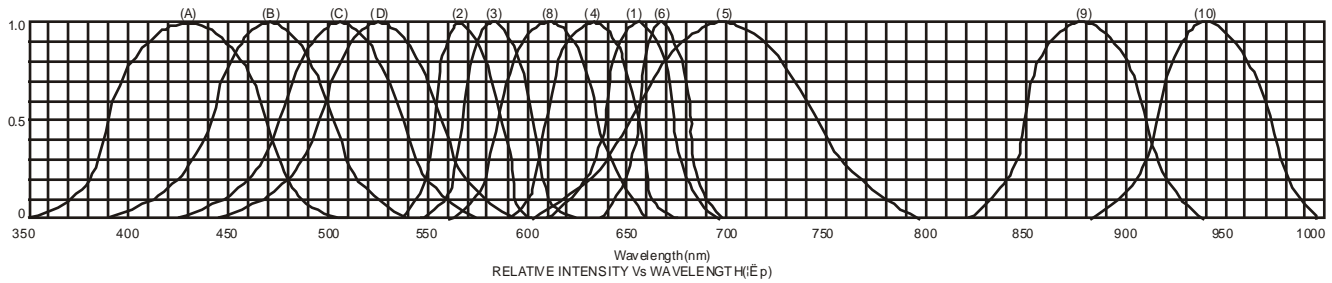
Notes:

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

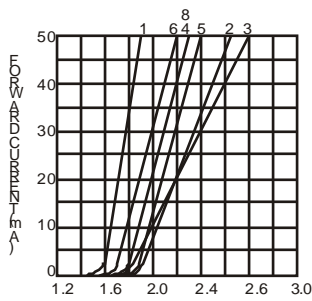
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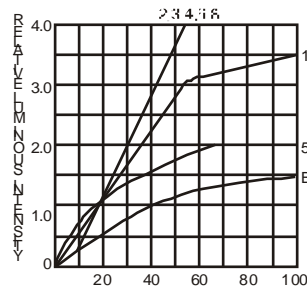
Typical electrical-optical characteristics curves:



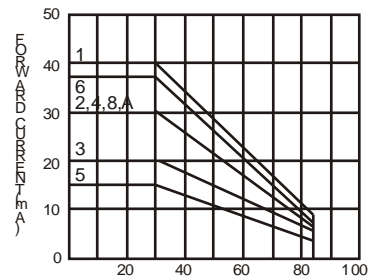
- (1) - GaAsP/GaAs 655nm/Red
- (2) - GaP 570nm/Yellow Green
- (3) - GaAsP/GaP 585nm/Yellow
- (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red
- (5) - GaP 700nm/Bright Red
- (6) - GaAlAs/GaAs 660nm/Super Red
- (8) - GaAsP/GaP 610nm/Super Red
- (9) - GaAlAs 880nm
- (10) - GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) -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



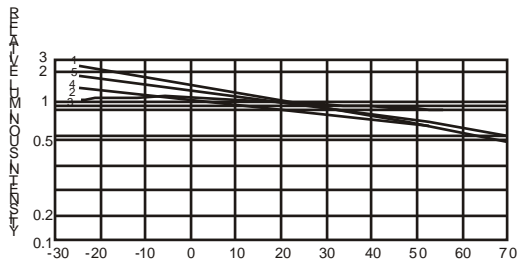
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



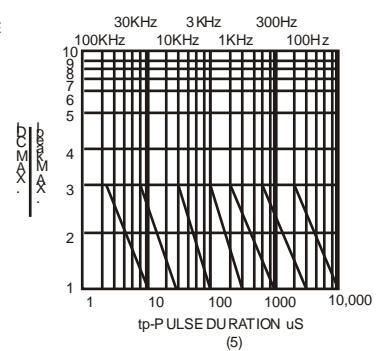
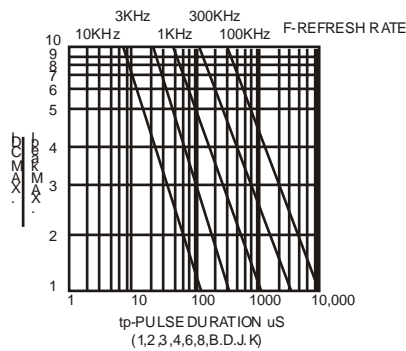
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



AMBIENT TEMPERATURE Ta()
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE Ta()



NOTE:25 free air temperature unless otherwise specified

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Packing and weighting

