

LED LAMP CLUSTER

BL-CS19AR2G1B1

Features:

- Square LED lamp cluster
- 19mm*19mm
- High visibility
- Emitting Color: red,green,blue
- No of Built-in 5mm LED Lamps :
- Ultra orange - 2pcs,green – 1pcs ,blue – 1pcs.
- Waterproof Package With Hood Suitable
- For Outdoor and Indoor Information Boards



Selection Guide

Part No.	Description
BL-CS19AR2G1B1	19mm square Lamp cluster 2 red ,1 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. BL-	Chip		Lens Appearance	Electro-optical Data(At 20mA)		Viewing Angle 2 θ 1/2 (deg)
			Material/ Emitted Color	Peak Wave Length λ p (nm)		Vf (V)	Iv (mcd)	
BL-CS19A R2G1B1	4x5x7mm 1.0" Lead Oval	L563UEC	AlGaInP/ Ultra Orange	630	Water clear	2.10	2.50	750
		L563UGC	AlGaInP/ Ultra Green	574	Water clear	2.20	2.50	600
		L563UBC	GaN/SiC Blue	430	Water clear	3.10	4.20	800

Notes:

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

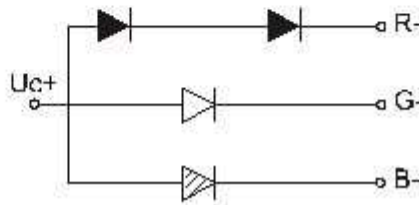
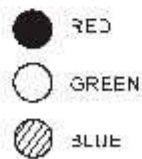
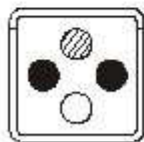
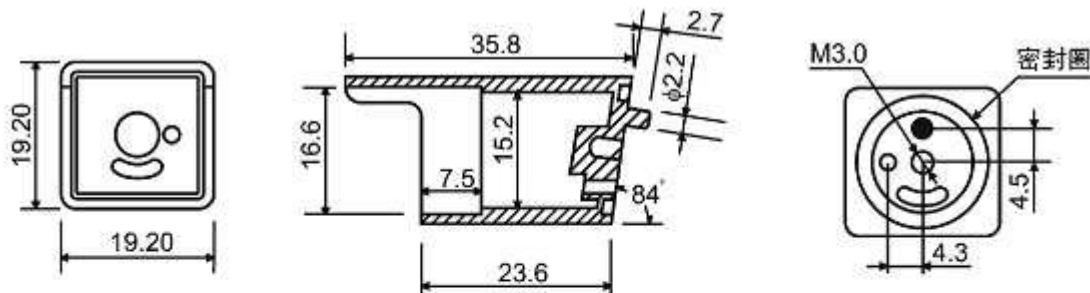
Absolute Maximum Rating (Each Lamp, Ta=25°C Derate above 25°C)

Characteristic	Symbol	Ultra Orang	Ultra Green	Ultra Blue	Unit
Spectral Line Half width	Δλ	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	75	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:



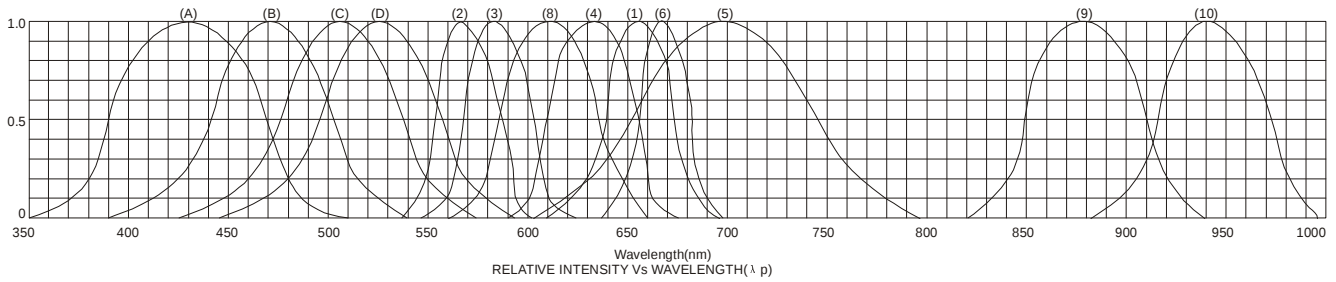
Notes:

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

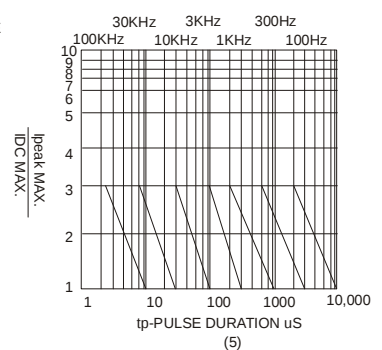
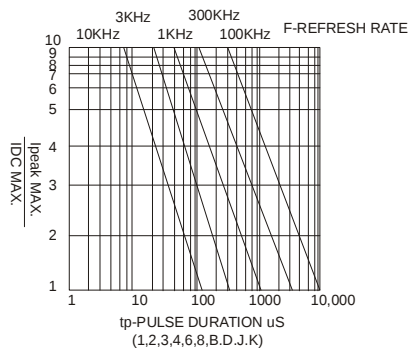
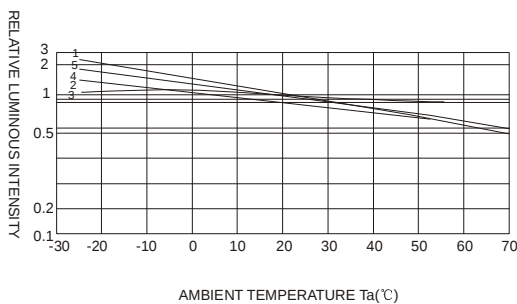
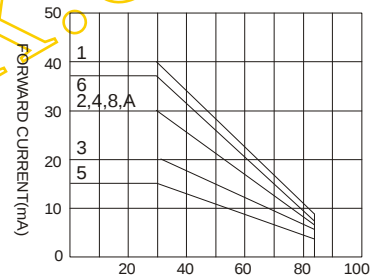
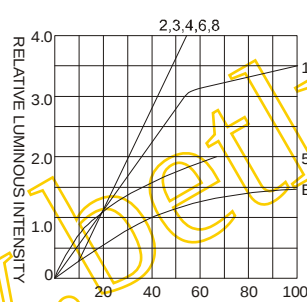
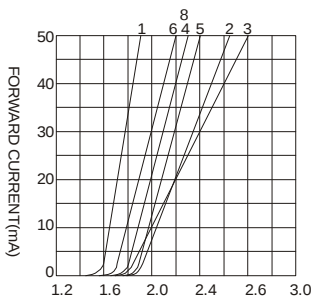
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Typical electrical-optical characteristics curves:



- | | |
|---|--------------------------------------|
| (1) - GaAsP/GaAs 655nm/Red | (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 | |



NOTE: 25°C free air temperature unless otherwise specified