

## LED LAMP CLUSTER

BL-CR26AR3G9B1

### Features:

- Ø Shape:round
- Ø Diameter: 26.0mm
- Ø High visibility
- Ø Emitting Color: red,green,blue
- Ø No of Built-in 5mm LED Lamps :
- Ø Ultra orange - 3pcs,green – 9pcs ,blue – 1pcs.
- Ø Waterproof Package With Hood Suitable
- Ø For Outdoor and Indoor Information Boards



### Selection Guide

| Part No.       | Description                                                     |
|----------------|-----------------------------------------------------------------|
| BL-CR26AR3G9B1 | 26mm square Lamp cluster<br>3 red ,9 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/2 (deg) |
|----------------|------------------------------|----------------------------|--------------------------|--------------------------|-----------------|-------------------------------|------|----------|---------------------------|
|                |                              |                            | Material/Emitted Color   | Peak Wave Length λp (nm) |                 | Vf (V)                        |      | Iv (mcd) |                           |
|                |                              |                            |                          |                          |                 | Typ                           | Max  |          |                           |
| BL-CR26AR3G9B1 | 4x5x7mm<br>1.0"<br>Lead Oval | L563UEC                    | AlGaInP/<br>Ultra Orange | 630                      | Water clear     | 2.10                          | 2.50 | 750      | X-X<br>45<br>Y-Y<br>25    |
|                |                              | L563UGC                    | AlGaInP/<br>Ultra Green  | 574                      | Water clear     | 2.20                          | 2.50 | 600      |                           |
|                |                              | L563UBC                    | GaN/SiC<br>Blue          | 430                      | Water clear     | 3.10                          | 4.20 | 800      |                           |

Notes:

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

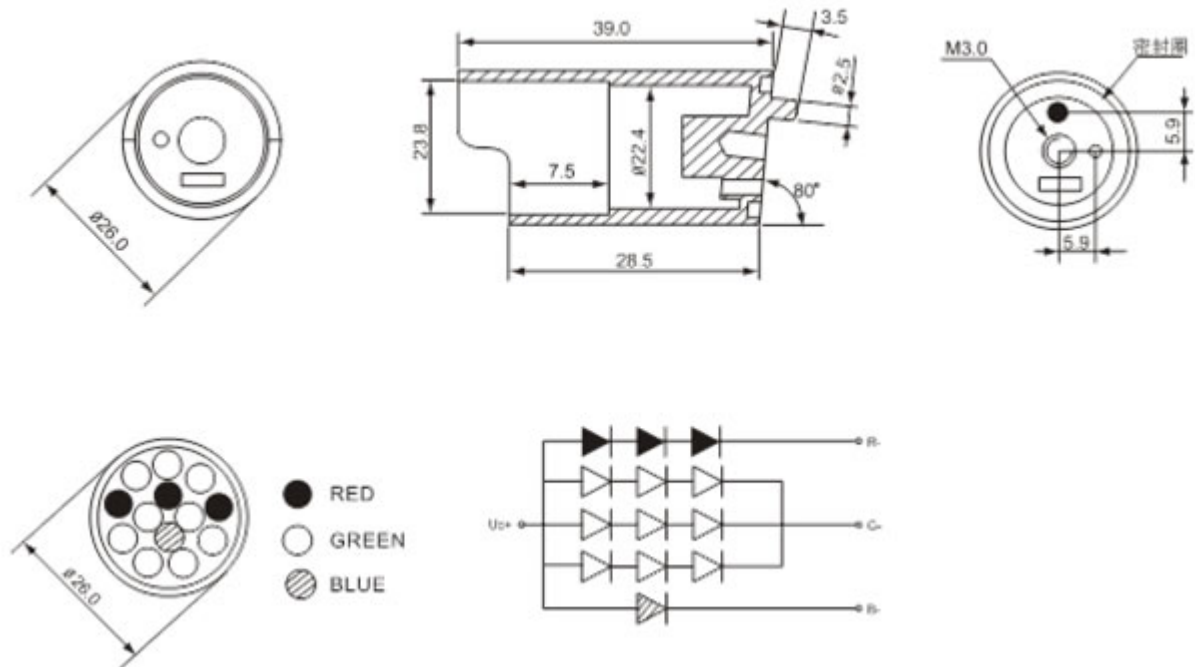
### Absolute Maximum Rating (Each Lamp, Ta=25°C Derate above 25°C)

| Characteristic             | Symbol | Ultra Orang                                                           | Ultra Green | Ultra 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.<br>(1.6mm from the base of the epoxy bulb) |             |            |      |

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### Package configuration & Internal circuit diagram:



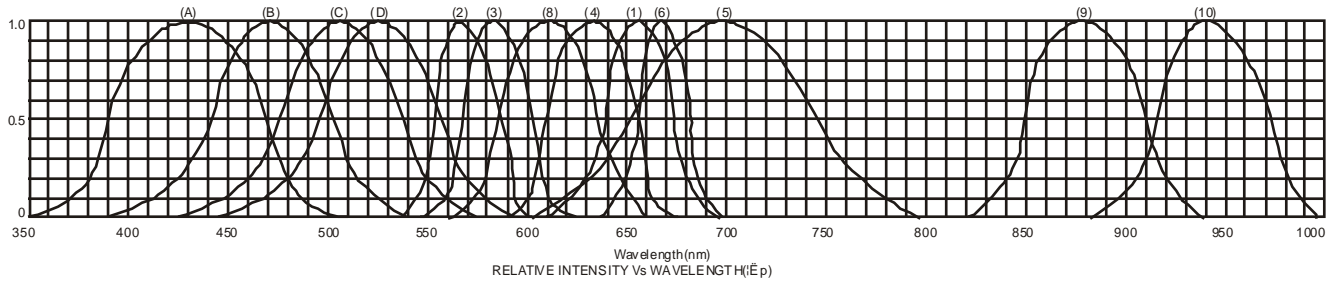
#### Notes:

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

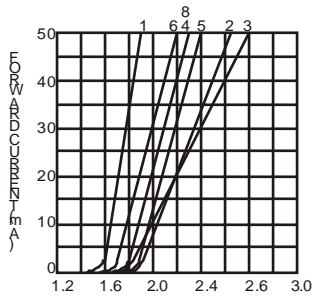
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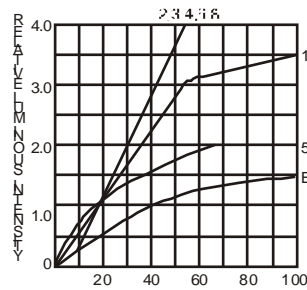
## Typical electrical-optical characteristics curves:



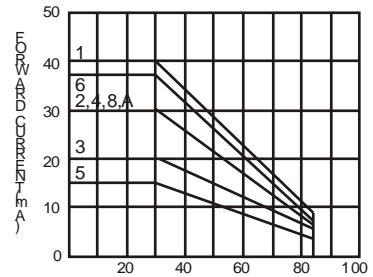
- (1) - GaAsP/GaAs 655nm/Red
- (2) - GaP 570nm/Yellow Green
- (3) - GaAsP/GaP 585nm/Yellow
- (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red
- (5) - GaP 700nm/Bright Red
- (6) - GaAlAs/GaAs 660nm/Super Red
- (8) - GaAsP/GaP 610nm/Super Red
- (9) - GaAlAs 880nm
- (10) - GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) -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



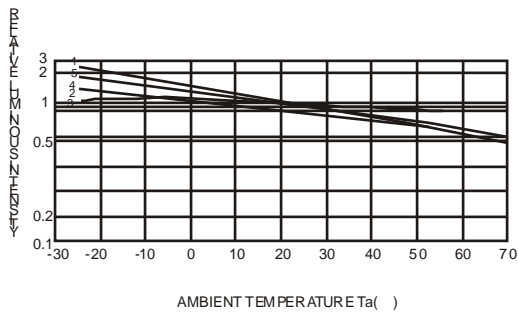
FORWARD CURRENT (mA)  
FORWARD VOLTAGE (Vf)  
FORWARD CURRENT VS. FORWARD VOLTAGE



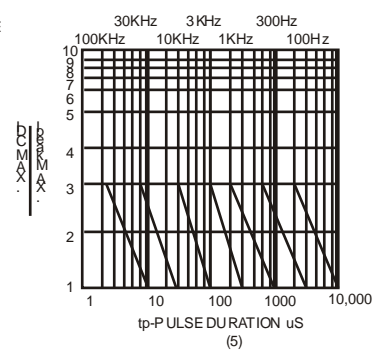
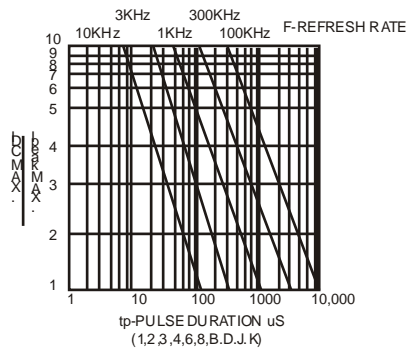
FORWARD CURRENT (mA)  
RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



AMBIENT TEMPERATURE Ta( °C)  
FORWARD CURRENT VS. AMBIENT TEMPERATURE



AMBIENT TEMPERATURE Ta( °C)



NOTE:25 free air temperature unless otherwise specified

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**Packing and weighting**

