

SMD LED LAMP
BL-LS2808A0S1
Features:

- 2.8mmx0.8mm SMD, 1.2mm THICKNESS PLCC2 package
- Mono-color type, Ultra brightness
- Compatible with automatic placement equipment
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- PACKAGE: 2KPCS/REEL
- RoHs Compliance


Electrical-optical characteristics: (Ta=25°C) (Test Condition: IF=20mA)

| Part Number | Chip | | | Lens Type | Forward Voltage(VF) Unit:V | | Luminous Intensity (Iv) Unit:mcd | | Viewing Angle 2θ1/2 (deg) |
|-------------------|------------------|----------|---------------------|-------------|-------------------------------|-----|-------------------------------------|------|---------------------------|
| | Emitted Color | Material | λ _P (nm) | | Typ | Max | Min. | Typ. | |
| | | | | | | | | | |
| BL-LS2808A0S1UEC | Ultra Red | AlGaAs | 630 | Water Clear | 2.0 | 2.4 | 200 | 220 | 120 |
| BL-LS2808A0S1UYO | Ultra Amber | AlGaInP | 610 | | 2.0 | 2.4 | 200 | 220 | |
| BL-LS2808A0S1UYC | Ultra Yellow | AlGaInP | 593 | | 2.0 | 2.4 | 200 | 220 | |
| BL-LS2808A0S1UGC | Ultra Green | AlGaInP | 575 | | 2.0 | 2.4 | 50 | 60 | |
| BL-LS2808A0S1PGC | Ultra Pure Green | InGaN | 525 | | 3.2 | 3.6 | 550 | 650 | |
| BL-LS2808A0S1UBC | Ultra Blue | InGaN | 470 | | 3.2 | 3.6 | 200 | 220 | |
| BL-LS2808A0S1UWC | Ultra White | InGaN | / | | 3.2 | 3.6 | 1300 | 1500 | |
| BL-LS2808A0S1UW2C | Warm White | InGaN | / | | 3.2 | 3.6 | 1200 | 1400 | |

Absolute maximum ratings (Ta=25°C)

| Parameter | UE | UYO | UY | UG | PG | UB | UW | Unit |
|---|---|-----|-----|-----|-----|-----|-----|------|
| Forward Current I _F | 30 | 30 | 30 | 30 | 30 | 30 | 30 | mA |
| Power Dissipation P _d | 78 | 78 | 78 | 78 | 78 | 78 | 78 | mW |
| Reverse Voltage V _R | 5 | 5 | 5 | 5 | 5 | 5 | 5 | V |
| Peak Forward Current I _{PF} (Duty 1/10 @1KHZ) | 100 | 100 | 100 | 100 | 100 | 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 |

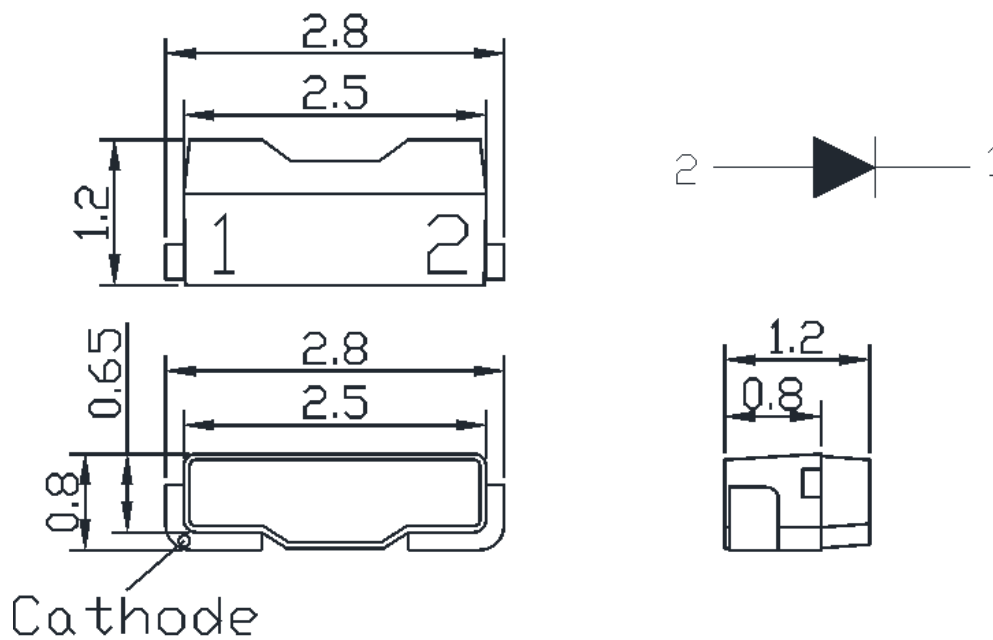
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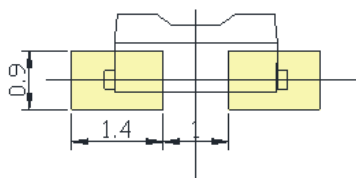
■ **Package configuration & Internal circuit diagram**

BL-LS2808 Series

Package Outline Drawing



Recommended Soldering Pad Dimensions



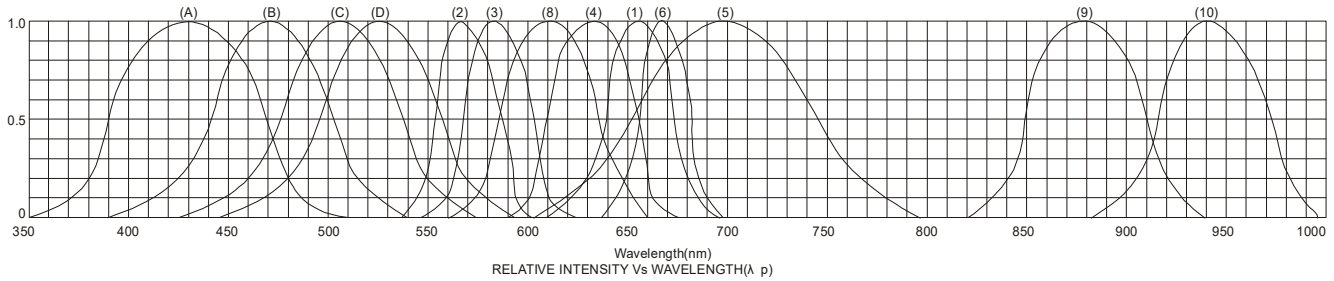
Notes:

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

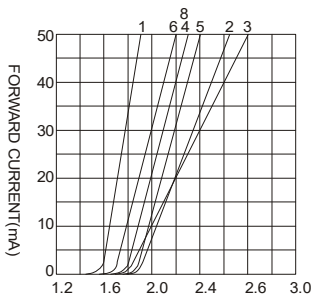
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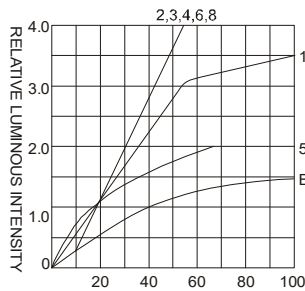
Typical electrical-optical characteristics curves:



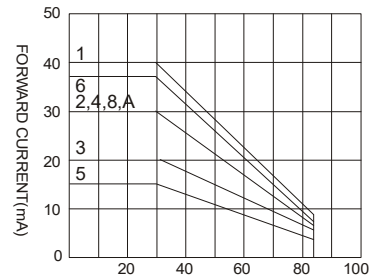
- (1) - GaAsP/GaAs 655nm/Red
- (2) - GaP 570nm/Yellow Green
- (3) - GaAsP/GaP 585nm/Yellow
- (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red
- (5) - GaP 700nm/Bright Red
- (6) - GaAlAs/GaAs 660nm/Super Red
- (8) - GaAsP/GaP 610nm/Super Red
- (9) - GaAlAs 880nm
- (10) - GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) -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



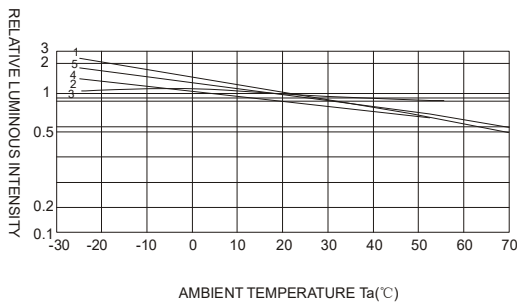
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



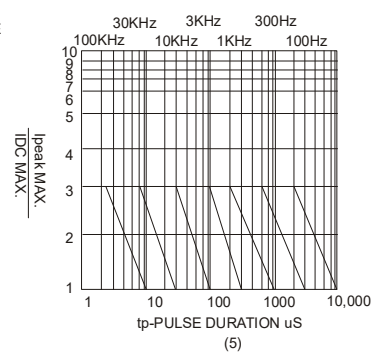
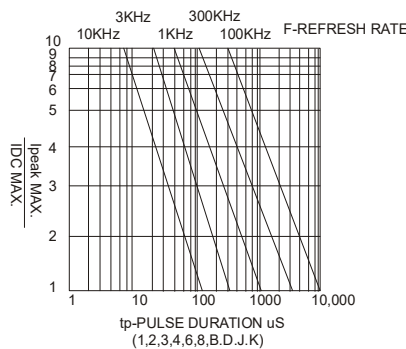
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



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



AMBIENT TEMPERATURE Ta(°C)



NOTE:25°C free air temperature unless otherwise specified

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■ **Packing and weighting**

