



PL008 Series Full Color RGB SMD LED PLCC-4 Package

Features

- *PLCC-4 Package 3.2 x 2.8 x 1.9 mm
- *ESD Threshold 300V
- *High Light Output
- *IC Compatible
- *Reliable and Rugged
- *Very Wide Viewing Angle
- *For use as Optical Indicator, Backlighting
- *12mm Tape, 2000 pcs per Reel
- *RoHS Compliant

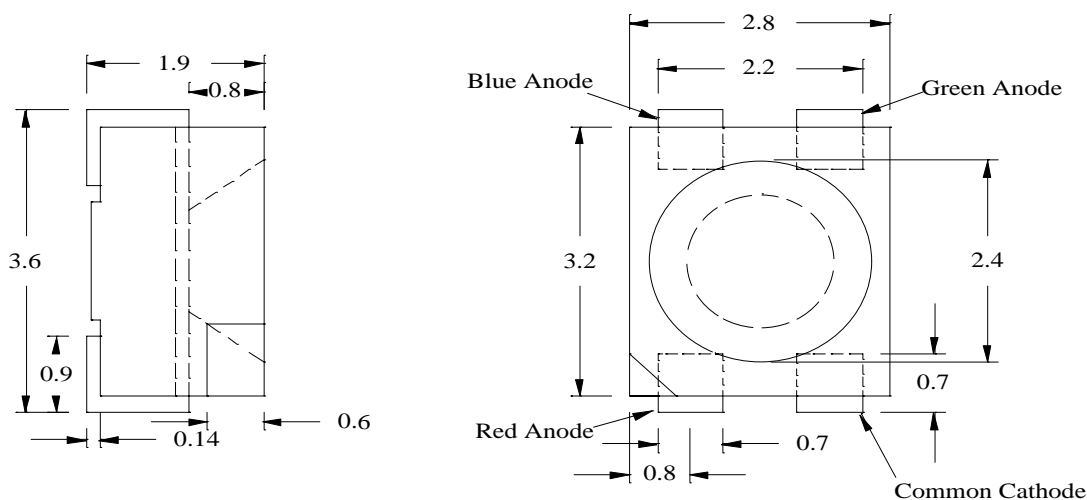
Absolute Maximum Ratings at $T_A = 25^\circ\text{C}$

| | |
|--|--------------------|
| Power Dissipation Red..... | 72mW |
| Power Dissipation Green & Blue..... | 80mW |
| Reverse Voltage (<math><100\mu\text{A}</math>)..... | 4.0V |
| Max Forward Current Red..... | 30mA |
| Max Forward Current Green & Blue..... | 20mA |
| Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)..... | 100mA |
| Operating Temperature Range..... | -25°C to +85°C |
| Storage Temperature Range..... | -40°C to +100°C |
| Wave Soldering Temperature..... | 260° for 5 seconds |

Electrical & Optical Characteristics at $T_A = 25^\circ\text{C}$

| Part Number | Emitting Color | Chip Material | Peak Wave Length | Dominant Wave Length | Viewing Angle | Forward Voltage @20mA(V) | | Luminous Intensity @20mA(mcd) | |
|-------------------|----------------|---------------|------------------|----------------------|---------------|---------------------------|-----|-------------------------------|-----|
| | | | | | | Typ | Max | Min | Typ |
| Water Clear Lens | | | nm | nm | Deg | | | | |
| PL008-WCRGB092108 | Hyper Red | AlGaInP | 632 | 625 | 120° | 2.0 | 2.4 | 120 | 200 |
| | Pure Green | InGaN | 525 | 520 | | 3.6 | 4.0 | 205 | 340 |
| | Blue | InGaN | - | 465 | | 3.6 | 4.0 | 72 | 120 |

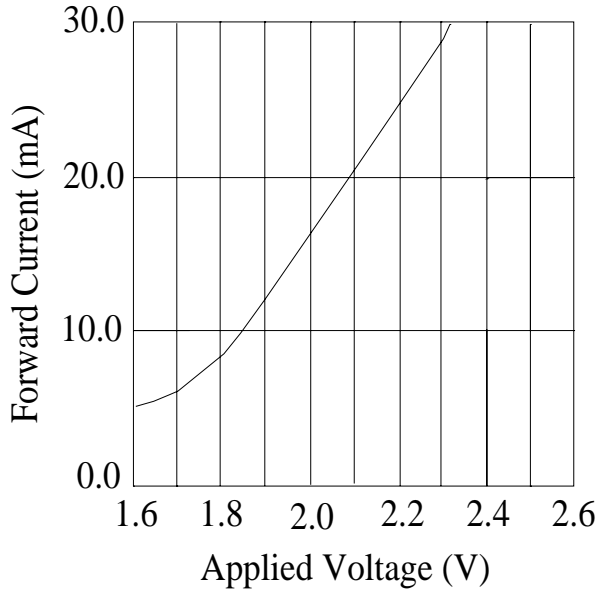
Package Dimensions are in **Millimeters**. Tolerance is $\pm 0.25\text{mm}$ unless otherwise specified.



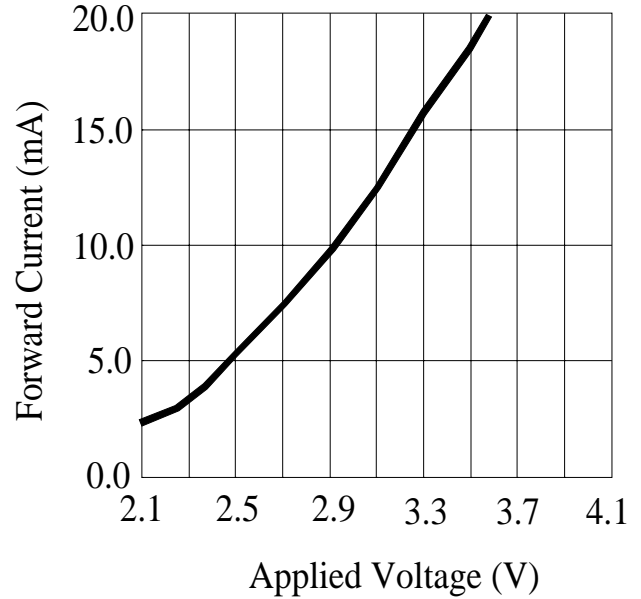


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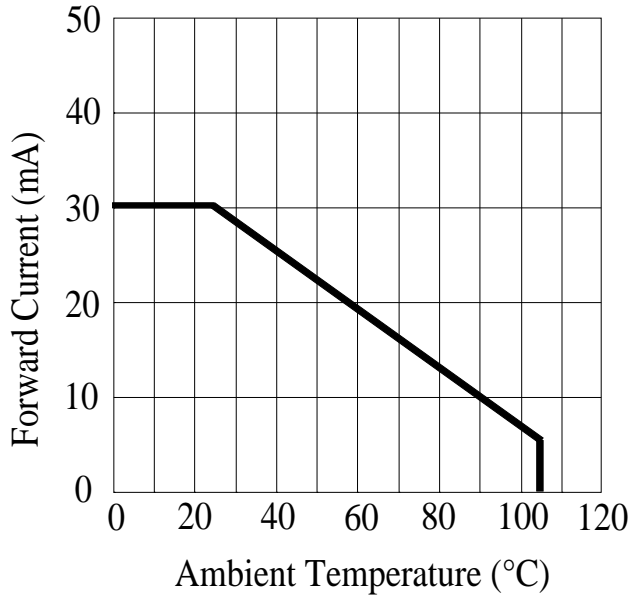
Forward Current vs Applied Voltage
For Red



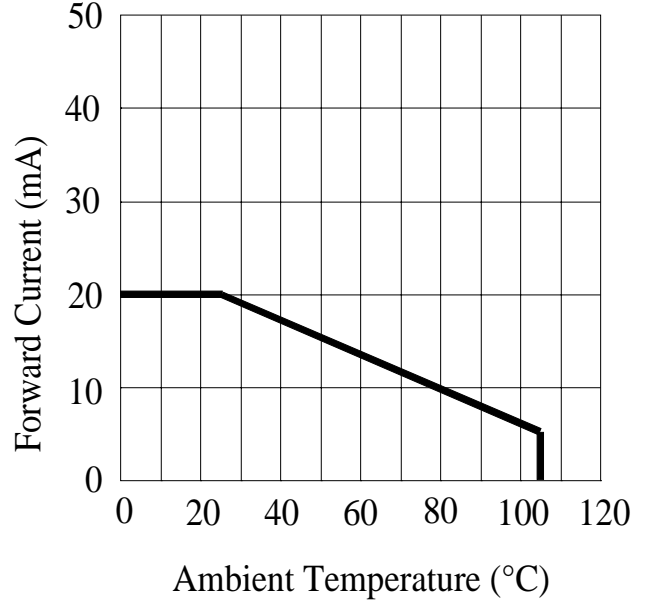
Forward Current vs Applied Voltage
For Blue & Green



Forward Current vs Ambient Temperature
For Red



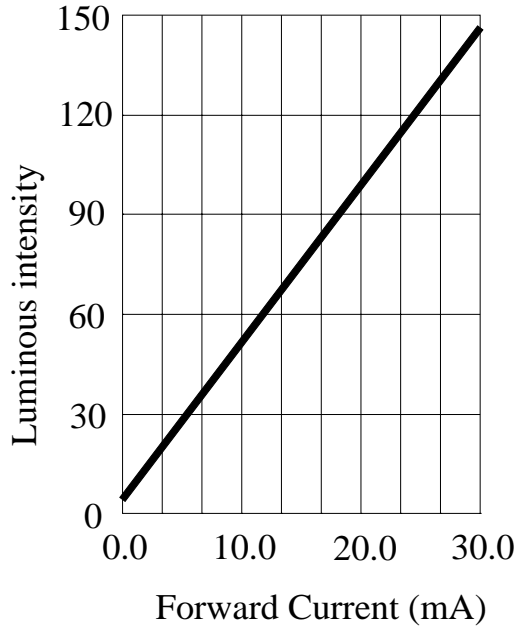
Forward Current vs Ambient Temperature
For Blue & Green



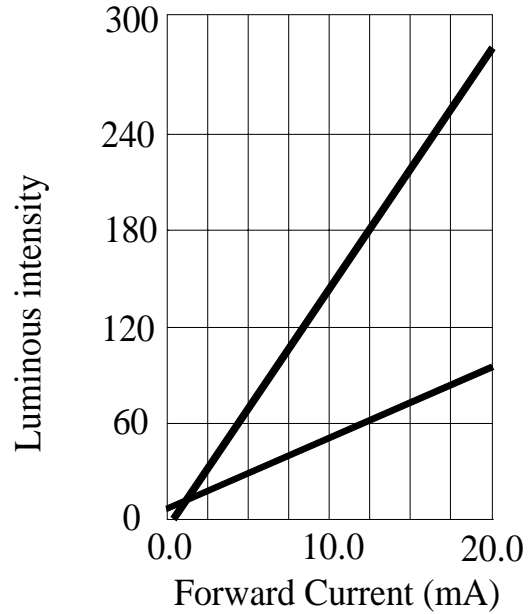


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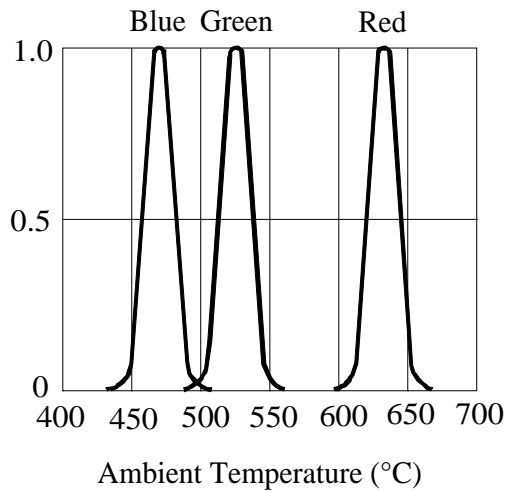
Luminous Intensity vs Forward Current
 For Red



Luminous Intensity vs Forward Current
 For Blue & Green



Relative Intensity vs Wavelength



Radiation Pattern

