

P-tec Corp. Tel:(866) 695 4162
 2405 Commerce Circle Tel:(719) 589 3122
 Alamosa CO 81101 Fax:(719) 589 3592
 www.p-tec.net



PL07 Series 3mm (T1) LED

Features

- *Popular 3mm Lens Style with small Flange
- *1 GaN/SiC Blue Chip used
- *Color Diffused Lens with a Wide Viewing Angle
- *High Intensity
- *Low Current Requirement
- *Reliable and Rugged
- *RoHS Compliant

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

| | |
|--|---------------------|
| Power Dissipation..... | 135mW |
| Reverse Voltage (<math><50\mu\text{A}</math>)..... | 5.0V |
| Max Forward Current..... | 30mA |
| 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 |
| Soldering Temperature (1.6mm below body)..... | 260°C for 5 seconds |
| Electrostatic Discharge..... | 1000V |

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

| Part Number | Emitting Color | Chip Material | Peak Wave Length | Dominant Wave Length | Viewing Angle $2\theta_{1/2}$ | Forward Voltage @20mA (V) | | Luminous Intensity @20mA (mcd) | |
|---------------------|----------------|---------------|------------------|----------------------|-------------------------------|---------------------------|-----|--------------------------------|------|
| | | | | | | Typ | Max | Min | Typ |
| Color Diffused Lens | | | nm | nm | Deg | | | | |
| PL07-CDB01 | Blue | GaN/SiC | 428 | 466 | 55° | 3.8 | 4.5 | 6.0 | 15.0 |

All dimensions are in **Millimeters**. Tolerance is $\pm 0.25\text{mm}$ unless otherwise specified. An epoxy meniscus may extend about 1 mm down the leads.

