

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 GaP Red 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..... | 90mW |
| Reverse Voltage (<100 μ A)..... | 5.0V |
| Max Forward Current..... | 30mA |
| Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)..... | 100mA |
| Operating Temperature Range..... | -25 $^\circ\text{C}$ to +85 $^\circ\text{C}$ |
| Storage Temperature Range..... | -40 $^\circ\text{C}$ to +100 $^\circ\text{C}$ |
| Soldering Temperature (1.6mm below body)..... | 260 $^\circ\text{C}$ 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 $2\theta_{1/2}$ | Forward Voltage @20mA (V) | | Luminous Intensity @20mA (mcd) | |
|---------------------|----------------|---------------|------------------|----------------------|-------------------------------|---------------------------|-----|--------------------------------|-----|
| | | | | | | Typ | Max | Min | Typ |
| Color Diffused Lens | | | nm | nm | Deg | | | | |
| PL07-CDR24 | Red | GaP | 700 | 650 | 55 $^\circ$ | 2.1 | 3.0 | 1.0 | 3.0 |

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.

