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## PL16 Series 5mm (T1¾) Full Color (RGB) LED

### Features

- \*Popular 5mm Lens Style with Flange
- \*Four Leads with Common Cathode
- \*White Diffused Lens for a wide Viewing Angle
- \*1.27mm (0.05") lead spacing
- \*Hyper Red, Pure Green and Blue Chips used (RGB)
- \*RoHS Compliant

### Absolute Maximum Ratings at T<sub>A</sub> = 25°C

|                                                                 |                     |
|-----------------------------------------------------------------|---------------------|
| Power Dissipation (Red).....                                    | 72mW                |
| Power Dissipation (Green & Blue).....                           | 120mW               |
| Reverse Voltage (<100µA) .....                                  | 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 (Green & Blue).....                     | 300V                |

### Electrical & Optical Characteristics at T<sub>A</sub> = 25°C

| Part Number         | Emitting Color | Chip Material | Peak Wave Length | Dominant Wave Length | Viewing Angle 2θ ½ | Forward Voltage @20mA (V) |     | Luminous Intensity @20mA (mcd) |     |
|---------------------|----------------|---------------|------------------|----------------------|--------------------|---------------------------|-----|--------------------------------|-----|
|                     |                |               |                  |                      |                    | Typ                       | Max | Min                            | Typ |
| White Diffused Lens |                |               | nm               | nm                   | Deg                |                           |     |                                |     |
| PL16N-WDRGB190503   | Red            | AlGaInP       | 639              | 630                  | 70°                | 1.9                       | 2.4 | 62.0                           | 140 |
|                     | Pure Green     | InGaN         | —                | 525                  |                    | 3.2                       | 4.0 | 270                            | 550 |
|                     | Blue           | InGaN         | —                | 465                  |                    | 3.2                       | 4.0 | 60.0                           | 140 |

All dimensions are in **Millimeters**. Tolerance is ± 0.25mm unless otherwise specified. An epoxy meniscus may extend about 1mm down the leads.

